

AFIP-1 Irradiation Summary Report

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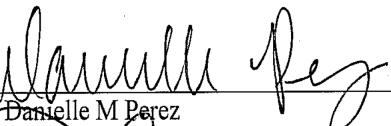
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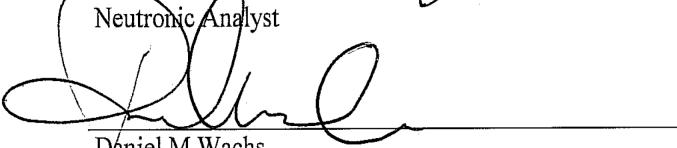
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Approved by:


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Neutronic Analyst

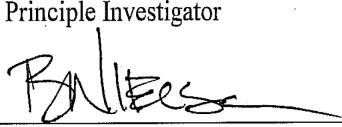
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SUMMARY

The Advanced Test Reactor (ATR) Full size plate In center flux trap Position (AFIP) experiment AFIP-1 was designed to demonstrate the performance of second-generation dispersion fuels at a prototypic scale with a length of 21.5 inches (54.6 cm), width of 2.25 inches (5.75 cm) and a thickness of 0.050 inch (0.13 cm). The experiment was fabricated using commercially standard practices at BWX Technology, Inc. (BWXT). The U-7Mo fuel particles were supplied by the Korean Atomic Energy Research Institute (KAERI) using equipment intended for commercial supply. Two fuel plates were tested that incorporated two different matrix compositions, Al-2Si and Al-4043.¹

The following report summarizes the life of the AFIP-1 experiment through end of irradiation, including a brief description of the safety analysis, as-run neutronic analysis results, hydraulic testing results, and thermal analysis results

CONTENTS

SUMMARY	i
ACRONYMS	vi
1. EXPERIMENT GOALS	1
2. CONSTITUENT MASSES AND DENSITIES	2
3. EXPERIMENT HARDWARE.....	3
4. SAFETY ANALYSIS	9
5. IRRADIATION HISTORY.....	10
6. AS-RUN NUCLEAR ANALYSIS.....	13
6.1 Neutronics	13
6.2 Axial Gradient.....	24
7. HYDRAULIC TESTING	26
8. AS-RUN THERMAL ANALYSIS	27
8.1 Coolant Channel Temperature	27
8.2 Plate Surface Temperature	34
9. REFERENCES	46
Appendix A Individual Plate Power and Fission Density Plots.....	47
Appendix B Plate Surface Temperatures	59

FIGURES

Figure 1. MCNP model X-Y view of the AFIP-1 test assembly ³	1
Figure 2. DWG 635793 ATR Full Size Plate in Center Flux Trap Position (AFIP) Test Train Assembly	4
Figure 3. Isometric view of the AFIP-1 Test Train Assembly.....	5
Figure 4. DWG-635789 REV 4 AFIP-1 Frame Assembly	6
Figure 5. DWG-635788 REV 2 ATR Full Size Plate in Center Flux Trap Position Fuel Plate.	7
Figure 6. Radial Cross Section of the AFIP Test Train Assembly.	8
Figure 7. Hourly lobe power history for ATR Cycle 142B.	11
Figure 8. Hourly lobe power history for ATR Cycle 143A.	11
Figure 9. Hourly lobe power history for ATR Cycle 143B.	12
Figure 10. AFIP-1 axial neutron flux profile. ³	24

Figure 11. AFIP-1 fission density axial profile ³ .	25
Figure 12. Coolant channel temperatures as a function of location along the test assembly at BOC 142B (0.0 EFPD). NOTE: AFIP-2 was inserted into plate position A and BOC 142B.	27
Figure 13. Coolant channel temperatures as a function of location along the test assembly at MOC 142B (16.0 EFPD, cumulative).	28
Figure 14. Coolant channel temperatures as a function of location along the test assembly at MOC 142B (29.7 EFPD cumulative).	28
Figure 15. Coolant channel temperatures as a function of location along the test assembly at EOC 142B (52.0 EFPD cumulative).	29
Figure 16. Coolant channel temperatures as a function of location along the test assembly at BOC 143A (52.0 EFPD cumulative).	29
Figure 17. Coolant channel temperatures as a function of location along the test assembly at MOC 143A (70.0 EFPD cumulative).	30
Figure 18. Coolant channel temperatures as a function of location along the test assembly at MOC 143A (90.0 EFPD cumulative).	30
Figure 19. Coolant channel temperatures as a function of location along the test assembly at EOC 143A (100.9 EFPD cumulative).	31
Figure 20. Coolant channel temperatures as a function of location along the test assembly at BOC 143B (100.9 EFPD cumulative). NOTE: AFIP-3 was inserted into plate position A and BOC 143B.	31
Figure 21. Coolant channel temperatures as a function of location along the test assembly at MOC 143B (118.9 EFPD cumulative).	32
Figure 22. Coolant channel temperatures as a function of location along the test assembly at MOC 143B (138.9 EFPD cumulative).	32
Figure 23. Coolant channel temperatures as a function of location along the test assembly at EOC 143B (158.2 EFPD cumulative).	33

TABLES

Table 1. AFIP-1 experiment matrix loading diagram ²	2
Table 2. AFIP-1 constituent masses ⁴	2
Table 3. AFIP-1 constituent densities	2
Table 4. AFIP-1 Irradiation Hardware Drawing List	3
Table 5. Summary table of the safety analyses done for the AFIP-1 experiment	9
Table 6. Irradiation history for AFIP-1	10
Table 7. Cycle breakdown	13
Table 8. Fuel zone thickness measurements	13
Table 9. End of cycle fission power density, surface heat flux, U-235 depletion and fission density for AFIP-1 experiment	14
Table 10. Cycle 142B, MCNP-Calculated heat generation rate and neutron flux for AFIP-1 fuel. 0.0 EFPD (BOC) Center Lobe Power at 25.4 MW. ³	15

Table 11. Cycle 142B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 16.0 EFPD (MOC1), Center Lobe Power at 25.4 MW (16.0 EFPD Cumulative). ³	15
Table 12. Cycle 142B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 29.7 EFPD (MOC2), Center Lobe Power at 25.4 MW (29.7 EFPD Cumulative). ³	16
Table 13. Cycle 142B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 52.0 EFPD (EOC), Center Lobe Power at 25.4 MW (52.0 EFPD Cumulative). ³	16
Table 14. Cycle 143A, MCNP-Calculated HGR and Neutron Flux for AFIP-1 fuel, 0.0 EFPD (BOC), Center Lobe Power at 24.3 MW. ³	17
Table 15. Cycle 143A, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 18.0 EFPD (MOC1), Center Lobe Power at 24.3 MW (70.0 EFPD Cumulative). ³	17
Table 16. Cycle 143A, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 38.0 EFPD (MOC2), Center Lobe Power at 24.3 MW (90.0 EFPD Cumulative). ³	18
Table 17. Cycle 143A, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 48.9 EFPD (EOC), Center Lobe Power at 24.3 MW (100.9 EFPD Cumulative). ³	18
Table 18. Cycle 143B, MCNP-Calculated HGR and Neutron Flux for AFIP-1 fuel, 0.0 EFPD (BOC), Center Lobe Power at 24.9 MW. ³	19
Table 19. Cycle 143B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 18.0 EFPD (MOC1), Center Lobe Power at 24.9 MW (118.9 EFPD Cumulative). ³	19
Table 20. Cycle 143B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 38.0 EFPD (MOC2), Center Lobe Power at 24.9 MW (138.9 EFPD Cumulative). ³	20
Table 21. Cycle 143B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 57.3 EFPD (EOC), Center Lobe Power at 24.9 MW (158.2 EFPD Cumulative). ³	20
Table 22. Corrected fission power density (W/cc) and fission density (fissions/cc) for ATR Cycle 142B.	21
Table 23. Corrected fission power density (W/cc) and fission density (fissions/cc) for ATR Cycle 143A.	22
Table 24. Corrected fission power density (W/cc) and fission density (fissions/cc) for ATR Cycle 143B.	23
Table 25. AFIP irradiation vehicle flow conditions for each orifice configuration. ⁶	26
Table 26. Temperature (°C) map of the east side of plate 1T2 at EOC 142B (52.0 EFPD).	34
Table 27. Temperature (°C) map of the west side of plate 1T2 at EOC 142B (52.0 EFPD).	35
Table 28. Temperature (°C) map of the east side of plate 1B5 at EOC 142B (52.0 EFPD).	36
Table 29. Temperature (°C) map of the west side of plate 1B5 at EOC 142B (52.0 EFPD).	37

Table 30. Temperature (°C) map of the east side of plate 1T2 at EOC 143A (100.9 EFPD).	38
Table 31. Temperature (°C) map of the west side of plate 1T2 at EOC 143A (100.9 EFPD).	39
Table 32. Temperature (°C) map of the east side of plate 1B5 at EOC 143A (100.9 EFPD).	40
Table 33. Temperature (°C) map of the west side of plate 1B5 at EOC 143A (100.9 EFPD).	41
Table 34. Temperature (°C) map of the east side of plate 1T2 at EOC 143B (158.2 EFPD).	42
Table 35. Temperature (°C) map of the west side of plate 1T2 at EOC 143B (158.2 EFPD).	43
Table 36. Temperature (°C) map of the east side of plate 1B5 at EOC 143B (158.2 EFPD).	44
Table 37. Temperature (°C) map of the west side of plate 1B5 at EOC 143B (158.2 EFPD).	45

ACRONYMS

Al	Aluminum
ATR	Advanced Test Reactor
AFIP	<u>ATR</u> <u>Full-size plate</u> <u>In center flux trap</u> <u>Position</u>
BWXT	BWX Technologies, Inc.
CFT	Center Flux Trap
DAS	Data Acquisition System
DNBR	Departure from Nucleate Boiling Ratio
ECAR	Engineering Calculations and Analysis Report
EFPD	Effective Full Power Days
FD	Fuel Development
FIR	Flow Instability Ratio
GTRI	Global Threat Reduction Initiative
KAERI	Korean Atomic Energy Research Institute
MCNP	Monte Carlo N-Particle
Mo	Molybdenum
RERTR	Reduced Enrichment Research and Test Reactor
Si	Silicon
U	Uranium
U-Mo	Uranium-Molybdenum

AFIP-1 Irradiation Summary Report

1. EXPERIMENT GOALS

In support of the Global Threat Reduction Initiative (GTRI) Fuel Development (FD) program (historically known as Reduced Enrichment for Research and Test Reactors (RERTR)), The Advanced Test Reactor (ATR) Full size plate In center flux trap Position (AFIP) experiment AFIP-1 was designed to demonstrate the performance of second-generation dispersion fuels at a prototypic scale with a length of 21.5 inches (54.6 cm), width of 2.25 inches (5.75 cm) and a thickness of 0.050 inch (0.13 cm). The experiment was fabricated using commercially standard practices at BWX Technology, Inc. (BWXT). The U-7Mo fuel particles were supplied by the Korean Atomic Energy Research Institute (KAERI) using equipment intended for commercial supply. Two fuel plates were tested that incorporated two different matrix compositions, Al-2Si and Al-4043.¹

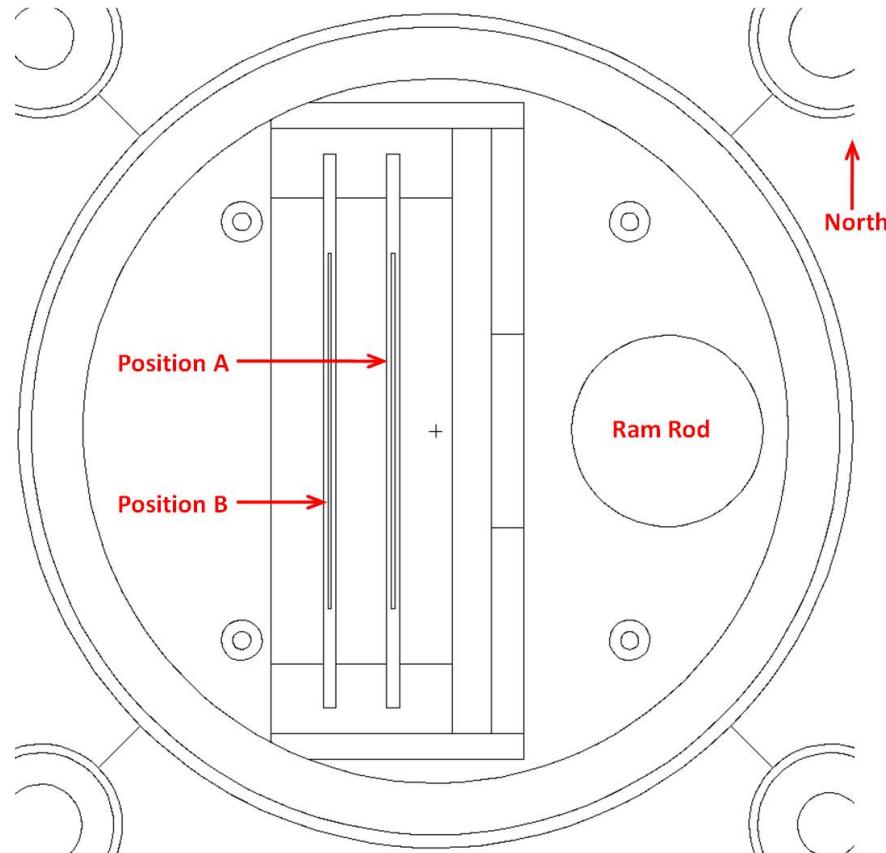


Figure 1. MCNP model X-Y view of the AFIP-1 test assembly³.

The AFIP-1 test assembly holds two full length (48 inch) frames, designated as A and B, a ramrod and four flux monitor wires. Frame A is located closest to the ramrod and frame B is on the outer (west) location in the assembly (see Figure 1). Each fuel plate is nominally 22.5 inches in length, 2.205 inches in width and 0.050 inches in thickness. The nominal fuel meat zone is 20.625 inches in length and 1.450 inches in width. The AFIP-1 experiment consisted of two fuel plates that were located in the B position of the test assembly with a plate on the top half of the frame and a plate on the bottom half. The experiment matrix is shown in Table 1.

Table 1. AFIP-1 experiment matrix loading diagram².

Assembly Position	Plate ID	B-Position
Top	1T2	U-7Mo Al-2Si Roll
Bottom	1B5	U-7Mo Al-4043 Roll

2. CONSTITUENT MASSES AND DENSITIES

The constituent masses and densities for plate 1T2 and 1B5 were obtained from the as-built data package⁴ plate summary sheets. Table 2 summarizes the constituent masses for both plates and Table 3 summarizes the constituent densities for both plates.

Table 2. AFIP-1 constituent masses⁴.

Fuel Plate Location	Fuel Plate ID	Total-U (g)	U-238 (g)	U-235 (g)	Mo (g)
Top	1T2	101.80	81.59	20.21	7.69
Bottom	1B5	102.25	81.95	20.30	7.72

Table 3. AFIP-1 constituent densities.

Fuel Plate Location	Fuel Plate ID	Fuel Meat Volume (cc)	Total-U (g/cc)	U-238 (g/cc)	U-235 (g/cc)	Mo (g/cc)
Top	1T2	11.618	8.762	7.023	1.740	0.662
Bottom	1B5	11.618	8.801	7.054	1.747	0.664

3. EXPERIMENT HARDWARE

The experiment hardware list for AFIP-1 is that used for all of the four-plate AFIP experiments. The drawing numbers and titles are in Table 4.

Table 4. AFIP-1 Irradiation Hardware Drawing List.

Drawing Number	Drawing Title
635791	ATR Full Size Plate in Center Flux Trap Position (AFIP) Flux Monitor Wire Holder Assembly Details
635792	ATR Full Size Plate in Center Flux Trap Position (AFIP) Plate Holder Tube Assembly and Details
635793	ATR Full Size Plate in Center Flux Trap Position (AFIP) Test Train Assembly
635790	ATR Full Size Plate in Center Flux Trap Position (AFIP) Ramrod and Ram Details
636544	ATR Full Size Plate in Center Flux Trap Position (AFIP) Holder Retriever Assembly and Details
635789	RERTR ATR Full Size Plate in Center Flux Trap Position Fuel Plate Frame Assembly and Details
635788	RERTR ATR Full Size Plate in Center Flux Trap Position Fuel Plate

The AFIP test train assembly as shown in Figure 2 shows the main components of the test assembly, which includes the flux monitor wire holders, the ram and ramrod, the frame assembly and the fuel plates. Figure 3 shows the test train assembly with the retriever attached to the top. The retriever is used to get the test train assembly out of the reactor. The flux monitor wire holders house the flux monitor wires. The ram is used to clamp onto the rails of the fuel plate frame assemblies to minimize vibrations and hold the fuel plate frame assemblies in place. The ramrod is the last component to be inserted; it is used to push the ram against the fuel plate frame assembly. The frame assembly holds the fuel plates into place and is shown in Figure 4. Figure 5 has the specific fuel plate dimensions and nominal fuel foil dimensions. Figure 6 is a radial cross section of the test train assembly and shows the locations of all the components.

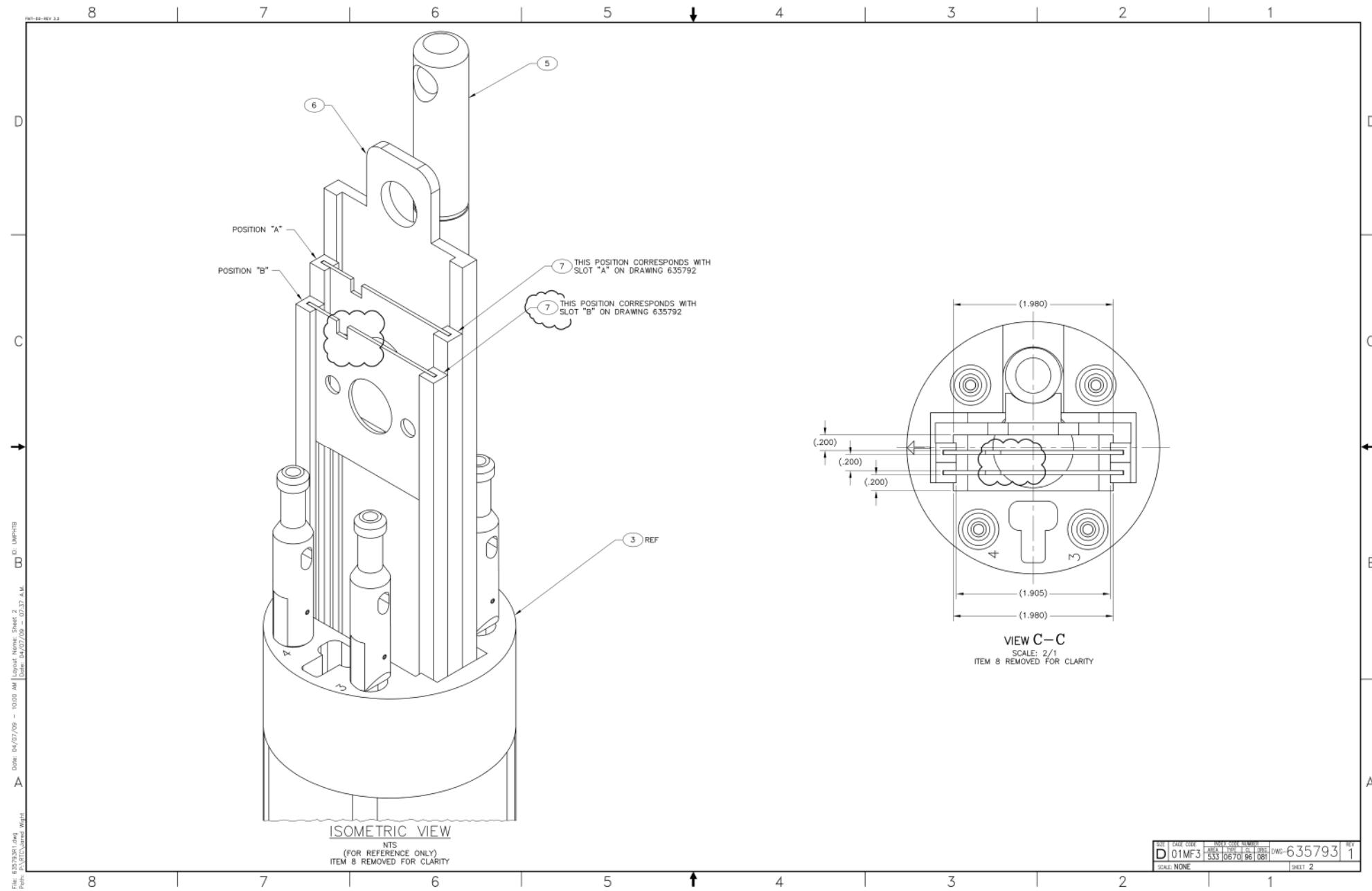


Figure 2. DWG 635793 ATR Full Size Plate in Center Flux Trap Position (AFIP) Test Train Assembly.



Figure 3. Isometric view of the AFIP-1 Test Train Assembly.

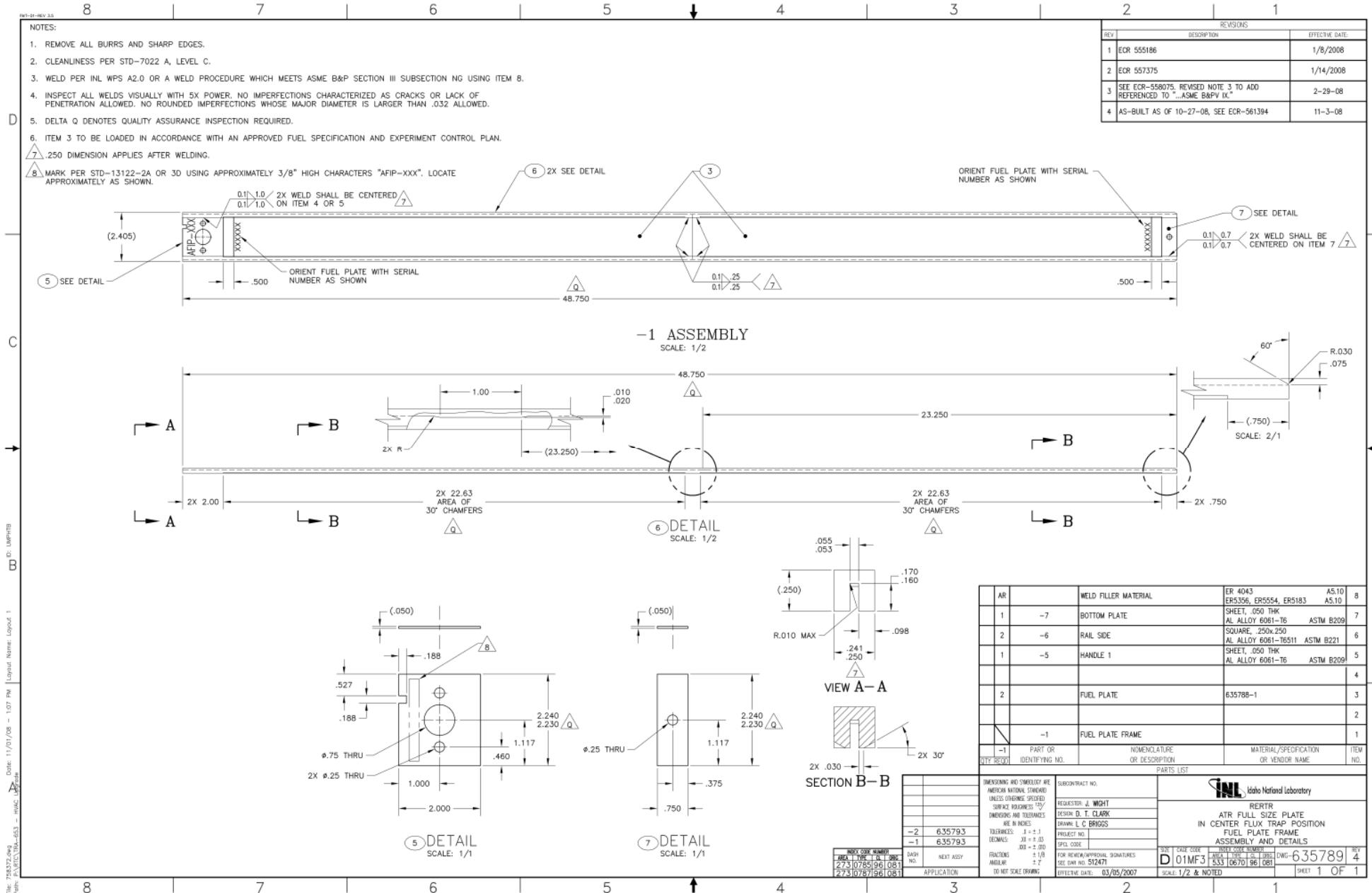


Figure 4. DWG-635789 REV 4 AFIP-1 Frame Assembly.

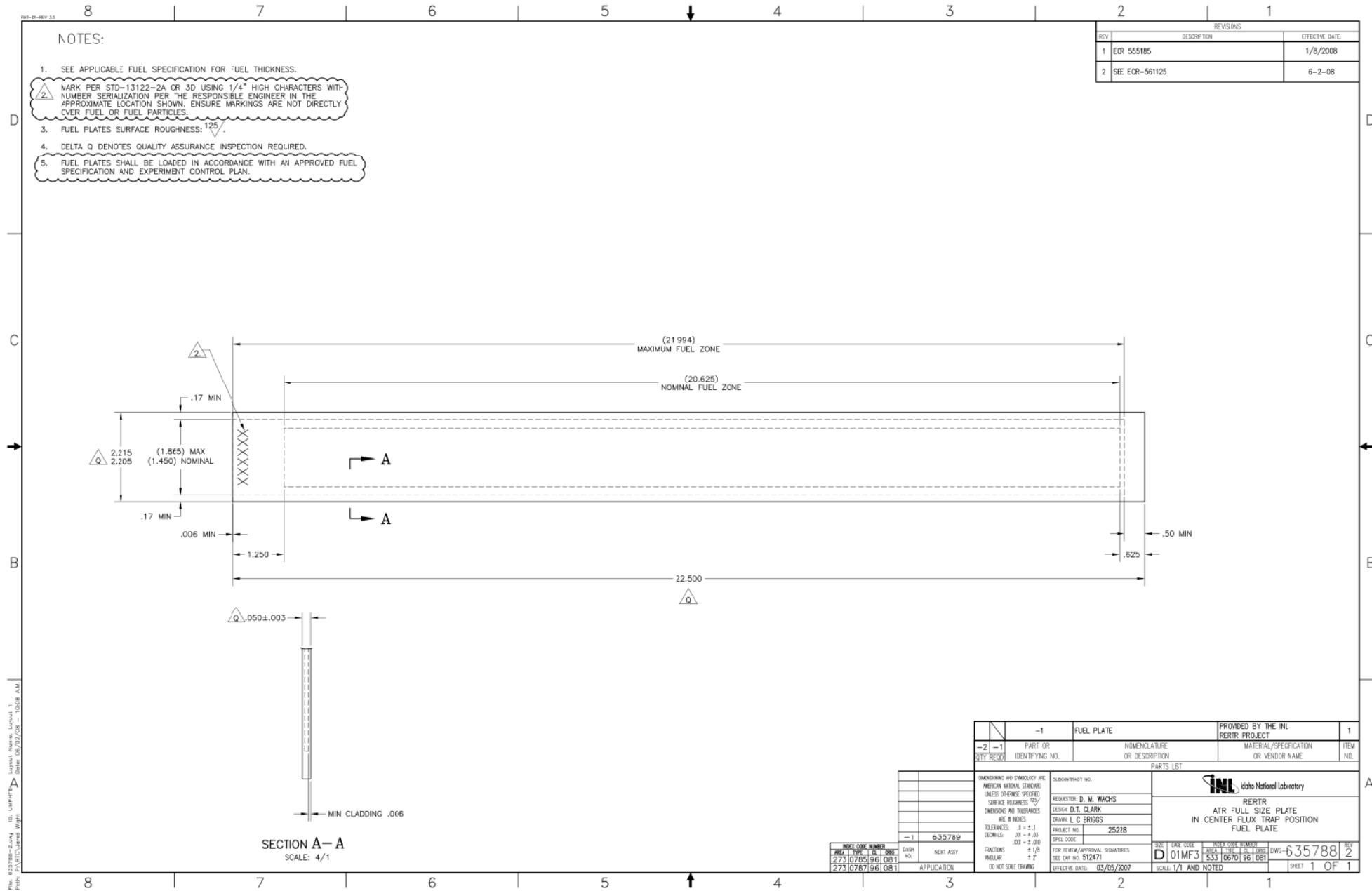


Figure 5. DWG-635788 REV 2 ATR Full Size Plate in Center Flux Trap Position Fuel Plate.

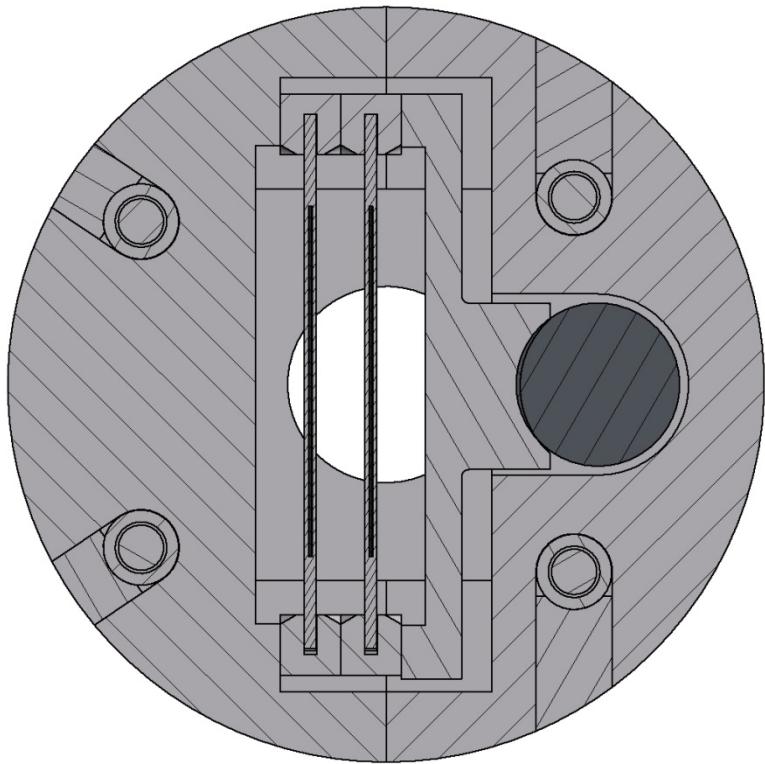


Figure 6. Radial Cross Section of the AFIP Test Train Assembly.

4. SAFETY ANALYSIS

The safety analysis that was performed on the AFIP-1 experiment includes thermal/hydraulic analysis, physics analysis, and structural analysis. The following table (Table 5) summarizes the safety analyses performed on the AFIP-1 experiment.

Table 5. Summary table of the safety analyses done for the AFIP-1 experiment.

ECAR Number	Description
ECAR-233	AFIP Four Plate Bounding Case Neutronics Analysis for the ATR Center Flux Trap Position
ECAR-260	Results of Four Fuel Plate AFIP Reactivity Measurements in the ATRC
ECAR-59, Rev. 2	Temperature Reactivity Coefficients for the AFIP Experiment in the Center Flux Trap of ATR
ECAE-258	Thermal Analysis of Four Plate AFIP Experiment
EDF-8209	AFIP Plate Frame, Test Train, and Backup Analysis (Structural)
ECAR-121	Total Flow Evaluations for AFIP and Backups
ECAR-126	RELAP Analysis for AFIP-2 Flow Restrictor
ECAR-432	Four Plate AFIP Experiment SIPT > ½ inch Pump Discharge Break Reactivity Transient Analysis

5. IRRADIATION HISTORY

The AFIP-1 test assembly was irradiated during cycles 142B, 143A and 143B in the ATR Center Flux Trap (CFT). Cycle 142B ran for 52.0 effective full power days (EFPDs) with a center lobe power of 25.4 MW (total core power of 116.8 MW). Cycle 143A ran for 48.9 EFPDs at a center lobe power of 24.3 MW (total core power of 112.2 MW). Cycle 143B ran for 57.3 EFPDs at a center lobe power of 24.9 MW (total core power of 113.0 MW).

There were two mid-cycle SCRAMs during cycle 142B with durations of 3 days and 2 days from dates 7/6/2008 – 7/9/2008 and 8/5/2008 – 8/7/2008, respectively. There were two mid cycle SCRAMs during cycle 143A with durations of 20 days and 5 days, from dates 10/16/2008 – 11/5/2008 and 11/21/2008 – 11/26/2008, respectively. There was one mid-cycle SCRAM during cycle 143B with a duration of 2 days, from dates 1/19/2009 – 1/21/2009. This information is summarized in Table 6.

Table 6. Irradiation history for AFIP-1.

ATR Cycle	AFIP Test ID	AFIP Frames Irradiated	Dates Irradiated	Cycle EFPDs	Mid-Cycle Scram Decay Days	Post-Cycle Decay Days	Center Flux Trap Power (MW)	Total Core Power (MW)
142B	AFIP-1/2	A,B	07/04/2008 – 08/30/2008	52.0	5	25	25.4	116.8
143A	AFIP-1	B	09/24/2008 – 12/06/2008	48.9	25	17	24.3	112.2
143B	AFIP-1/3	A,B	12/23/2008 – 02/20/2009	57.3	2	21	24.9	113.0

The power history for each cycle is obtained as an ATR Surveillance Report from the ATR Data Acquisition System (DAS). The plots of each lobe power on an hourly basis are shown in Figure 7, Figure 8 and Figure 9 for cycle 142B, 143A and 143B, respectively.

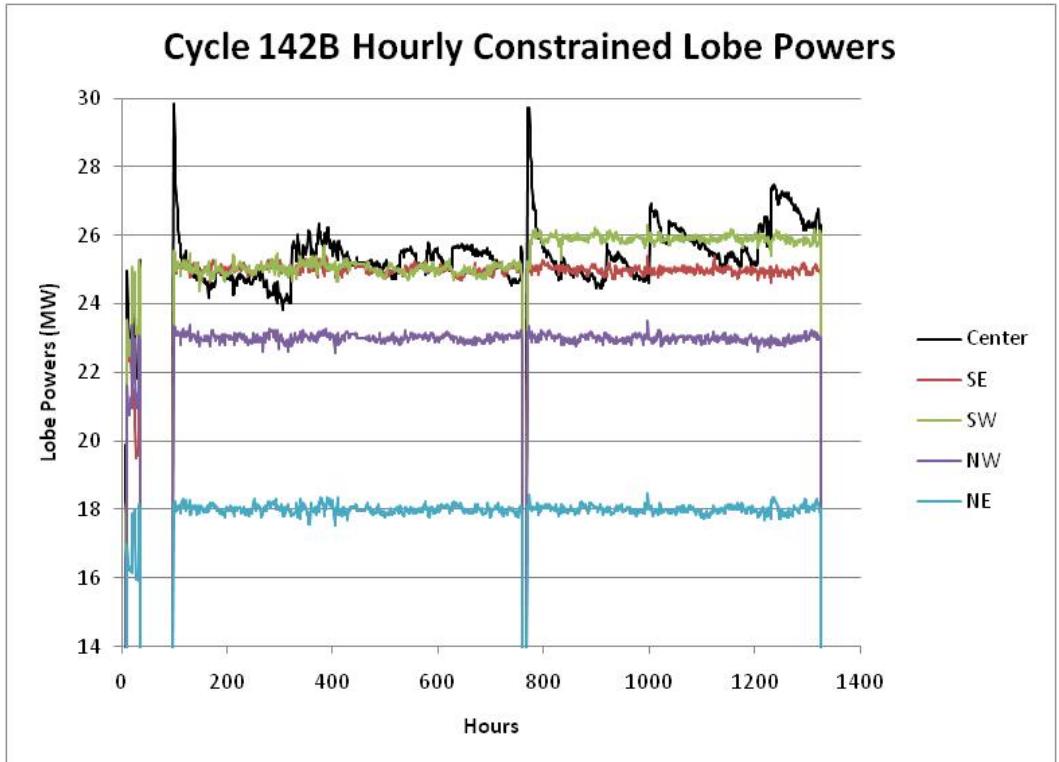


Figure 7. Hourly lobe power history for ATR Cycle 142B.

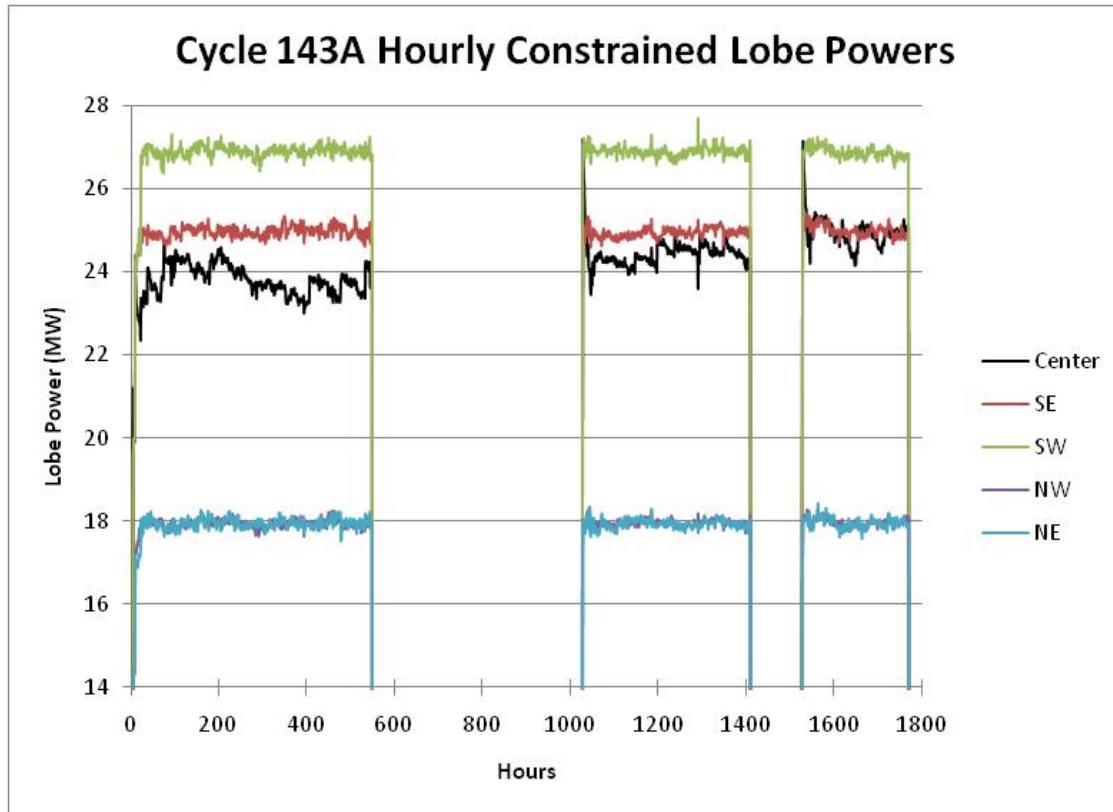


Figure 8. Hourly lobe power history for ATR Cycle 143A.

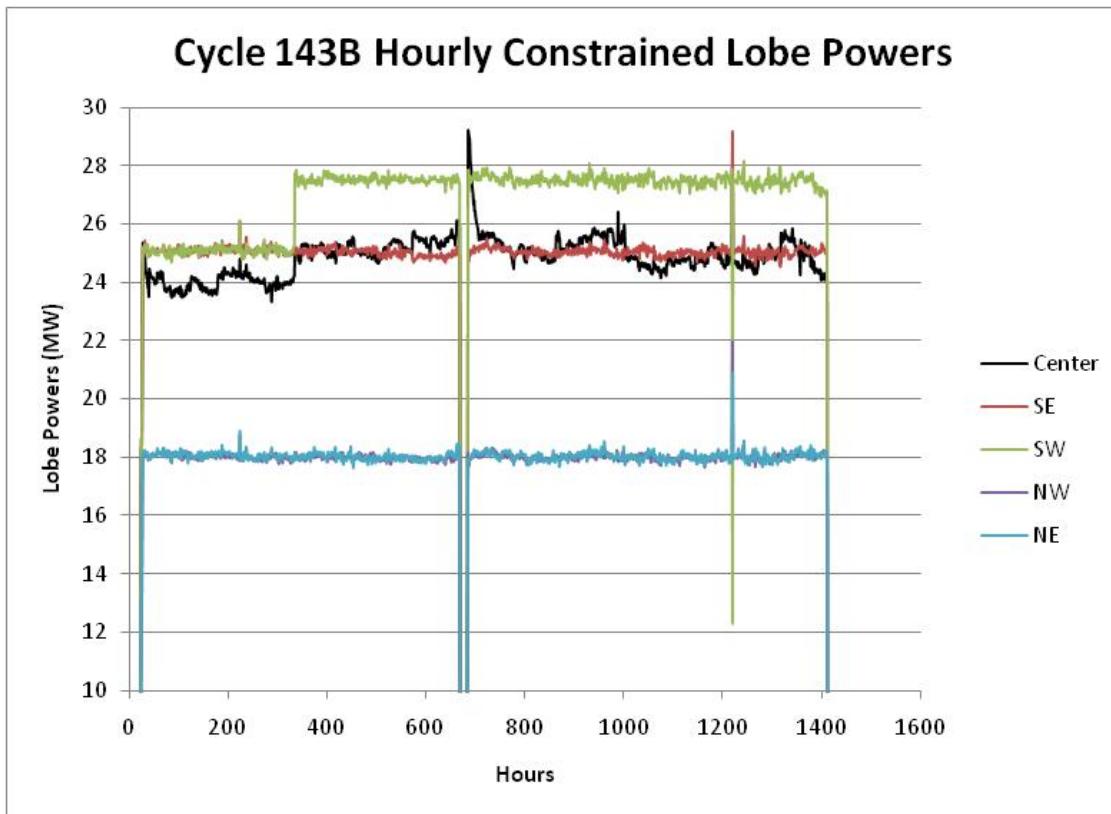


Figure 9. Hourly lobe power history for ATR Cycle 143B.

6. AS-RUN NUCLEAR ANALYSIS

6.1 Neutronics

The as-run calculations were performed using the irradiation history in Table 6, the Monte Carlo N-Particle (MCNP) code, ORIGEN2.2 and MCWO³. The calculated as-run fission heat rates, fission densities, and as-run U-235 burnup results for the fueled plates reported have an uncertainty band (1σ) of 2.5%³. The time intervals used to calculate the average plate power and burnup is shown in Table 7.

Table 7. Cycle breakdown.

Time Interval	142B (days)	143A (days)	143B (days)
BOC	0.0	0.0	0.0
MOC 1	16.0	18.0	18.0
MOC 2	13.7	20.0	20.0
EOC	22.3	10.9	19.3
Total EFPDs	52.0	48.9	57.3
Cumulative	52.0	100.9	158.2

The MCNP-calculated neutronic results reported³ were calculated using the nominal fuel core thickness reported in the as-built data package⁴ as an “in process” measurement. The actual fuel core thickness measurements were calculated using density measurements and radiography⁵. To correct for the thickness change, the fission density (fissions/cc) and the fission power density (W/cc) were scaled to the thickness measurement ratio shown in Table 8.

Table 8. Fuel zone thickness measurements.

Plate ID	“In-Process” Average Fuel Foil Thickness ⁴ (in)	Measured Average Fuel Foil Thickness ⁵ (in)	Thickness Measurement Ratio
1T2	0.020	0.0221	0.905
1B5	0.020	0.0227	0.881

The MCNP-calculated end of cycle average plate power and burnup for cycles 142B, 143A and 143B are shown in Table 9. The MCNP-calculated plate power and burnup for the time intervals for each cycle are shown in Table 10 through Table 21. The corrected fission density (fissions/cc) and fission power density (W/cc) for each time interval are shown in Table 22 through Table 24. The heat flux was not scaled since the surface area of the fuel meat was represented correctly in the MCNP model. The plots of the corrected power and fission density as a function of the ATR Cycle time interval are in Appendix A.

Table 9. End of cycle fission power density, surface heat flux, U-235 depletion and fission density for AFIP-1 experiment.

Plate ID	MCNP Cell Elevation ^(a) (inches)	EOC 142B				EOC 143A				EOC 143B			
		Fission Power Density (W/cc)	Surface Heat Flux (W/cm ²)	% Depletion U-235 (%)	Fission Density (fission/cc)	Fission Power Density (W/cc)	Surface Heat Flux (W/cm ²)	% Depletion U-235 (%)	Fission Density (fission/cc)	Fission Power Density (W/cc)	Surface Heat Flux (W/cm ²)	% Depletion U-235 (%)	Fission Density (fission/cc)
1T2	20.82	5020.40	127.52	19.36%	7.58E+20	4495.47	114.18	34.88%	1.39E+21	3746.04	95.15	48.61%	1.96E+21
	18.76	6209.56	157.72	24.11%	9.55E+20	5367.10	136.32	42.60%	1.72E+21	4327.45	109.92	57.76%	2.38E+21
	16.70	7385.43	187.59	29.27%	1.18E+21	5897.26	149.79	49.62%	2.04E+21	4579.03	116.31	65.46%	2.76E+21
	14.64	8293.53	210.66	33.11%	1.35E+21	6288.21	159.72	55.00%	2.30E+21	4869.80	123.69	71.27%	3.07E+21
	12.58	9033.80	229.46	36.54%	1.51E+21	6473.07	164.42	59.67%	2.53E+21	4833.14	122.76	75.64%	3.31E+21
	10.52	9456.05	240.18	38.85%	1.61E+21	6554.10	166.47	62.90%	2.70E+21	4961.85	126.03	79.00%	3.51E+21
	8.46	9825.47	249.57	40.89%	1.71E+21	6597.78	167.58	65.32%	2.82E+21	4916.25	124.87	81.06%	3.63E+21
	6.40	9967.63	253.18	42.19%	1.77E+21	6608.62	167.86	67.14%	2.91E+21	4877.30	123.88	82.67%	3.73E+21
	4.34	10177.99	258.52	42.91%	1.81E+21	6607.82	167.84	68.12%	2.97E+21	4805.66	122.06	83.52%	3.79E+21
	2.28	10365.69	263.29	44.44%	1.88E+21	6575.32	167.01	69.56%	3.05E+21	4806.01	122.07	84.75%	3.87E+21
1B5	-2.28	10382.49	263.72	45.00%	1.91E+21	6492.39	164.91	70.03%	3.07E+21	4724.65	120.01	84.91%	3.88E+21
	-4.34	10234.02	259.94	43.54%	1.84E+21	6584.56	167.25	68.71%	3.00E+21	4783.87	121.51	83.90%	3.81E+21
	-6.40	10237.54	260.03	43.41%	1.83E+21	6618.58	168.11	68.37%	2.99E+21	4882.71	124.02	83.56%	3.80E+21
	-8.46	10091.34	256.32	42.53%	1.79E+21	6586.40	167.29	67.16%	2.92E+21	4802.45	121.98	82.48%	3.72E+21
	-10.52	9717.88	246.83	40.96%	1.71E+21	6553.45	166.46	65.07%	2.81E+21	4830.98	122.71	80.59%	3.61E+21
	-12.58	9344.22	237.34	38.99%	1.62E+21	6462.22	164.14	62.49%	2.67E+21	4910.92	124.74	78.32%	3.47E+21
	-14.64	8833.71	224.38	36.00%	1.48E+21	6368.38	161.76	58.88%	2.49E+21	4775.40	121.30	74.88%	3.26E+21
	-16.70	8140.28	206.76	32.75%	1.33E+21	6015.40	152.79	54.10%	2.26E+21	4743.98	120.50	70.17%	3.01E+21
	-18.76	7182.94	182.45	28.51%	1.15E+21	5606.24	142.40	48.25%	1.98E+21	4480.04	113.79	64.02%	2.69E+21
	-20.82	6125.34	155.58	23.87%	9.46E+20	5062.08	128.58	41.21%	1.66E+21	4121.47	104.69	56.01%	2.30E+21
MAX	NA	10382.49	263.72	45.00%	1.91E+21	6618.58	168.11	70.03%	3.07E+21	4961.85	126.03	84.91%	3.88E+21
MIN	NA	5020.40	127.52	19.36%	7.58E+20	4495.47	114.18	34.88%	1.39E+21	3746.04	95.15	48.61%	1.96E+21
AVG	NA	8801.27	223.55	36.36%	1.51E+21	6190.72	157.24	58.95%	2.51E+21	4688.95	119.10	74.43%	3.28E+21

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 10. Cycle 142B, MCNP-Calculated heat generation rate and neutron flux for AFIP-1 fuel. 0.0 EFPD (BOC) Center Lobe Power at 25.4 MW.³

Plate ID	Cell	MCNP Cell Elevation ^(a) (inches)	Fission Power Density (W/cc)	Surface Heat Flux (W/cm ²)	Neutron Flux (n/cm ² sec)
1T2	A-1	20.82	4548.21	115.52	4.58E+14
	A-2	18.76	5768.14	146.51	6.03E+14
	A-3	16.70	7223.07	183.47	7.54E+14
	A-4	14.64	8306.64	210.99	8.63E+14
	A-5	12.58	9461.56	240.32	9.62E+14
	A-6	10.52	10300.76	261.64	1.04E+15
	A-7	8.46	11031.83	280.21	1.09E+15
	A-8	6.40	11568.15	293.83	1.13E+15
	A-9	4.34	11833.80	300.58	1.16E+15
	A-10	2.28	12430.22	315.73	1.16E+15
1B5	A-11	-2.28	12845.87	326.29	1.17E+15
	A-12	-4.34	12176.86	309.29	1.17E+15
	A-13	-6.40	12034.41	305.67	1.15E+15
	A-14	-8.46	11798.81	299.69	1.13E+15
	A-15	-10.52	11276.69	286.43	1.10E+15
	A-16	-12.58	10480.78	266.21	1.03E+15
	A-17	-14.64	9454.55	240.15	9.46E+14
	A-18	-16.70	8348.28	212.05	8.53E+14
	A-19	-18.76	7137.12	181.28	7.26E+14
	A-20	-20.82	5750.19	146.05	5.80E+14
	MAX	NA	12845.87	326.29	1.17E+15
	MIN	NA	4548.21	115.52	4.58E+14
	AVG	NA	9688.80	246.10	9.54E+14

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 11. Cycle 142B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 16.0 EFPD (MOC1), Center Lobe Power at 25.4 MW (16.0 EFPD Cumulative).³

Plate ID	Cell	MCNP Cell Elevation ^(a) (inches)	Fission Power Density (W/cc)	Surface Heat Flux (W/cm ²)	Neutron Flux (n/cm ² sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
1T2	A-1	20.82	4558.53	115.79	4.79E+14	5.61%	2.15E+20
	A-2	18.76	5785.33	146.95	6.23E+14	7.07%	2.72E+20
	A-3	16.70	7142.45	181.42	7.67E+14	8.77%	3.41E+20
	A-4	14.64	8216.92	208.71	8.77E+14	10.03%	3.92E+20
	A-5	12.58	9096.70	231.06	9.70E+14	11.33%	4.47E+20
	A-6	10.52	9756.12	247.81	1.04E+15	12.27%	4.86E+20
	A-7	8.46	10395.30	264.04	1.09E+15	13.08%	5.21E+20
	A-8	6.40	10805.19	274.45	1.11E+15	13.66%	5.46E+20
	A-9	4.34	10906.63	277.03	1.13E+15	13.95%	5.58E+20
	A-10	2.28	11401.44	289.60	1.14E+15	14.58%	5.87E+20
1B5	A-11	-2.28	11425.36	290.20	1.14E+15	15.03%	6.06E+20
	A-12	-4.34	11076.80	281.35	1.13E+15	14.31%	5.75E+20
	A-13	-6.40	11050.40	280.68	1.13E+15	14.15%	5.68E+20
	A-14	-8.46	10682.59	271.34	1.10E+15	13.89%	5.57E+20
	A-15	-10.52	10338.80	262.61	1.06E+15	13.32%	5.32E+20
	A-16	-12.58	9808.05	249.12	1.02E+15	12.47%	4.95E+20
	A-17	-14.64	8868.18	225.25	9.41E+14	11.31%	4.46E+20
	A-18	-16.70	7987.86	202.89	8.58E+14	10.07%	3.94E+20
	A-19	-18.76	6874.88	174.62	7.29E+14	8.66%	3.37E+20
	A-20	-20.82	5723.37	145.37	5.87E+14	7.04%	2.71E+20
	MAX	NA	11425.36	290.20	1.14E+15	15.03%	6.06E+20
	MIN	NA	4558.53	115.79	4.79E+14	5.61%	2.15E+20
	AVG	NA	9095.04	231.01	9.46E+14	11.53%	4.57E+20

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 12. Cycle 142B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 29.7 EFPD (MOC2), Center Lobe Power at 25.4 MW (29.7 EFPD Cumulative).³

Plate ID	Cell	MCNP Cell Elevation ^(a) (inches)	Fission Power Density (W/cc)	Surface Heat Flux (W/cm ²)	Neutron Flux (n/cm ² sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
1T2	A-1	20.82	5323.11	135.21	5.30E+14	10.41%	3.99E+20
	A-2	18.76	6658.21	169.12	6.91E+14	13.10%	5.07E+20
	A-3	16.70	8150.08	207.01	8.44E+14	16.13%	6.30E+20
	A-4	14.64	9290.40	235.98	9.60E+14	18.39%	7.25E+20
	A-5	12.58	10281.12	261.14	1.06E+15	20.52%	8.15E+20
	A-6	10.52	10880.57	276.37	1.12E+15	22.07%	8.81E+20
	A-7	8.46	11419.25	290.05	1.18E+15	23.46%	9.42E+20
	A-8	6.40	11692.42	296.99	1.20E+15	24.43%	9.83E+20
	A-9	4.34	11984.91	304.42	1.22E+15	24.79%	1.00E+21
	A-10	2.28	12369.96	314.20	1.23E+15	25.89%	1.05E+21
1B5	A-11	-2.28	12460.40	316.49	1.23E+15	26.36%	1.07E+21
	A-12	-4.34	12093.30	307.17	1.22E+15	25.30%	1.02E+21
	A-13	-6.40	12117.06	307.77	1.22E+15	25.15%	1.02E+21
	A-14	-8.46	11867.27	301.43	1.20E+15	24.56%	9.89E+20
	A-15	-10.52	11333.66	287.88	1.16E+15	23.67%	9.51E+20
	A-16	-12.58	10785.64	273.96	1.11E+15	22.34%	8.92E+20
	A-17	-14.64	10010.53	254.27	1.03E+15	20.32%	8.05E+20
	A-18	-16.70	9143.13	232.24	9.29E+14	18.21%	7.17E+20
	A-19	-18.76	7871.58	199.94	8.01E+14	15.77%	6.15E+20
	A-20	-20.82	6568.68	166.84	6.57E+14	13.01%	5.03E+20
	MAX	NA	12460.40	316.49	1.23E+15	26.36%	1.07E+21
	MIN	NA	5323.11	135.21	5.30E+14	10.41%	3.99E+20
	AVG	NA	10115.06	256.92	1.03E+15	20.69%	8.25E+20

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 13. Cycle 142B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 52.0 EFPD (EOC), Center Lobe Power at 25.4 MW (52.0 EFPD Cumulative).³

Plate ID	Cell	MCNP Cell Elevation ^(a) (inches)	Fission Power Density (W/cc)	Surface Heat Flux (W/cm ²)	Neutron Flux (n/cm ² sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
1T2	A-1	20.82	5020.40	127.52	5.27E+14	19.36%	7.58E+20
	A-2	18.76	6209.56	157.72	6.87E+14	24.11%	9.55E+20
	A-3	16.70	7385.43	187.59	8.39E+14	29.27%	1.18E+21
	A-4	14.64	8293.53	210.66	9.52E+14	33.11%	1.35E+21
	A-5	12.58	9033.80	229.46	1.05E+15	36.54%	1.51E+21
	A-6	10.52	9456.05	240.18	1.12E+15	38.85%	1.61E+21
	A-7	8.46	9825.47	249.57	1.17E+15	40.89%	1.71E+21
	A-8	6.40	9967.63	253.18	1.19E+15	42.19%	1.77E+21
	A-9	4.34	10177.99	258.52	1.21E+15	42.91%	1.81E+21
	A-10	2.28	10365.69	263.29	1.22E+15	44.44%	1.88E+21
1B5	A-11	-2.28	10382.49	263.72	1.22E+15	45.00%	1.91E+21
	A-12	-4.34	10234.02	259.94	1.21E+15	43.54%	1.84E+21
	A-13	-6.40	10237.54	260.03	1.20E+15	43.41%	1.83E+21
	A-14	-8.46	10091.34	256.32	1.19E+15	42.53%	1.79E+21
	A-15	-10.52	9717.88	246.83	1.15E+15	40.96%	1.71E+21
	A-16	-12.58	9344.22	237.34	1.10E+15	38.99%	1.62E+21
	A-17	-14.64	8833.71	224.38	1.02E+15	36.00%	1.48E+21
	A-18	-16.70	8140.28	206.76	9.21E+14	32.75%	1.33E+21
	A-19	-18.76	7182.94	182.45	7.96E+14	28.51%	1.15E+21
	A-20	-20.82	6125.34	155.58	6.53E+14	23.87%	9.46E+20
	MAX	NA	10382.49	263.72	1.22E+15	45.00%	1.91E+21
	MIN	NA	5020.40	127.52	5.27E+14	19.36%	7.58E+20
	AVG	NA	8801.27	223.55	1.02E+15	36.36%	1.51E+21

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 14. Cycle 143A, MCNP-Calculated HGR and Neutron Flux for AFIP-1 fuel, 0.0 EFPD (BOC), Center Lobe Power at 24.3 MW.³

Plate ID	Cell	MCNP Cell Elevation ^(a) (inches)	Fission Power Density (W/cc)	Surface Heat Flux (W/cm ²)	Neutron Flux (n/cm ² sec)
1T2	A-1	20.82	3890.90	98.83	4.10E+14
	A-2	18.76	4863.94	123.54	5.31E+14
	A-3	16.70	5534.06	140.57	6.41E+14
	A-4	14.64	6229.52	158.23	7.40E+14
	A-5	12.58	6891.87	175.05	8.38E+14
	A-6	10.52	7354.62	186.81	9.14E+14
	A-7	8.46	7759.92	197.10	9.79E+14
	A-8	6.40	8088.70	205.45	1.02E+15
	A-9	4.34	8376.20	212.76	1.05E+15
	A-10	2.28	8448.91	214.60	1.08E+15
1B5	A-11	-2.28	8461.54	214.92	1.08E+15
	A-12	-4.34	8459.08	214.86	1.08E+15
	A-13	-6.40	8228.54	209.00	1.05E+15
	A-14	-8.46	7950.58	201.94	1.02E+15
	A-15	-10.52	7627.84	193.75	9.63E+14
	A-16	-12.58	7278.26	184.87	9.03E+14
	A-17	-14.64	6733.17	171.02	8.24E+14
	A-18	-16.70	6126.26	155.61	7.28E+14
	A-19	-18.76	5444.06	138.28	6.21E+14
	A-20	-20.82	4496.59	114.21	4.99E+14
	MAX	NA	8461.54	214.92	1.08E+15
	MIN	NA	3890.90	98.83	4.10E+14
	AVG	NA	6912.23	175.57	8.48E+14

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 15. Cycle 143A, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 18.0 EFPD (MOC1), Center Lobe Power at 24.3 MW (70.0 EFPD Cumulative).³

Plate ID	Cell	MCNP Cell Elevation ^(a) (inches)	Fission Power Density (W/cc)	Surface Heat Flux (W/cm ²)	Neutron Flux (n/cm ² sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
1T2	A-1	20.82	4554.58	115.69	4.77E+14	24.52%	9.63E+20
	A-2	18.76	5502.55	139.76	6.11E+14	30.44%	1.21E+21
	A-3	16.70	6197.77	157.42	7.22E+14	36.32%	1.47E+21
	A-4	14.64	6842.80	173.81	8.23E+14	40.89%	1.68E+21
	A-5	12.58	7318.39	185.89	9.09E+14	45.02%	1.87E+21
	A-6	10.52	7803.11	198.20	9.70E+14	47.78%	2.00E+21
	A-7	8.46	7917.72	201.11	1.02E+15	50.20%	2.12E+21
	A-8	6.40	8129.28	206.48	1.05E+15	51.79%	2.20E+21
	A-9	4.34	8219.88	208.78	1.07E+15	52.80%	2.25E+21
	A-10	2.28	8232.13	209.10	1.08E+15	54.35%	2.33E+21
1B5	A-11	-2.28	8216.41	208.70	1.08E+15	54.93%	2.35E+21
	A-12	-4.34	8194.31	208.14	1.08E+15	53.52%	2.28E+21
	A-13	-6.40	8255.07	209.68	1.06E+15	53.10%	2.26E+21
	A-14	-8.46	8061.70	204.77	1.04E+15	52.00%	2.21E+21
	A-15	-10.52	7828.39	198.84	1.00E+15	50.13%	2.12E+21
	A-16	-12.58	7481.32	190.03	9.52E+14	47.82%	2.00E+21
	A-17	-14.64	7231.20	183.67	8.92E+14	44.30%	1.83E+21
	A-18	-16.70	6630.70	168.42	8.03E+14	40.42%	1.66E+21
	A-19	-18.76	5981.95	151.94	6.96E+14	35.46%	1.43E+21
	A-20	-20.82	5140.77	130.58	5.63E+14	29.74%	1.18E+21
	MAX	NA	8255.07	209.68	1.08E+15	54.93%	2.35E+21
	MIN	NA	4554.58	115.69	4.77E+14	24.52%	9.63E+20
	AVG	NA	7187.00	182.55	8.95E+14	44.78%	1.87E+21

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 16. Cycle 143A, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 38.0 EFPD (MOC2), Center Lobe Power at 24.3 MW (90.0 EFPD Cumulative).³

Plate ID	Cell	MCNP Cell Elevation ^(a) (inches)	Fission Power Density (W/cc)	Surface Heat Flux (W/cm ²)	Neutron Flux (n/cm ² sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
1T2	A-1	20.82	4654.02	118.21	5.14E+14	31.16%	1.23E+21
	A-2	18.76	5628.14	142.95	6.57E+14	38.22%	1.54E+21
	A-3	16.70	6250.59	158.77	7.67E+14	44.86%	1.84E+21
	A-4	14.64	6707.86	170.38	8.60E+14	50.07%	2.08E+21
	A-5	12.58	7001.06	177.83	9.41E+14	54.62%	2.30E+21
	A-6	10.52	7139.92	181.35	9.90E+14	57.83%	2.46E+21
	A-7	8.46	7236.66	183.81	1.03E+15	60.25%	2.59E+21
	A-8	6.40	7293.12	185.25	1.05E+15	62.05%	2.68E+21
	A-9	4.34	7304.27	185.53	1.07E+15	63.10%	2.73E+21
	A-10	2.28	7276.95	184.83	1.07E+15	64.56%	2.81E+21
1B5	A-11	-2.28	7187.92	182.57	1.07E+15	65.12%	2.84E+21
	A-12	-4.34	7257.87	184.35	1.07E+15	63.75%	2.77E+21
	A-13	-6.40	7287.43	185.10	1.06E+15	63.37%	2.75E+21
	A-14	-8.46	7222.47	183.45	1.05E+15	62.16%	2.68E+21
	A-15	-10.52	7148.67	181.58	1.02E+15	60.07%	2.58E+21
	A-16	-12.58	7010.51	178.07	9.77E+14	57.49%	2.44E+21
	A-17	-14.64	6870.65	174.51	9.16E+14	53.86%	2.26E+21
	A-18	-16.70	6411.44	162.85	8.27E+14	49.35%	2.05E+21
	A-19	-18.76	5911.26	150.15	7.21E+14	43.74%	1.79E+21
	A-20	-20.82	5292.08	134.42	5.92E+14	37.06%	1.49E+21
	MAX	NA	7304.27	185.53	1.07E+15	65.12%	2.84E+21
	MIN	NA	4654.02	118.21	5.14E+14	31.16%	1.23E+21
	AVG	NA	6704.64	170.30	9.12E+14	54.13%	2.30E+21

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 17. Cycle 143A, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 48.9 EFPD (EOC), Center Lobe Power at 24.3 MW (100.9 EFPD Cumulative).³

Plate ID	Cell	MCNP Cell Elevation ^(a) (inches)	Fission Power Density (W/cc)	Surface Heat Flux (W/cm ²)	Neutron Flux (n/cm ² sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
1T2	A-1	20.82	4495.47	114.18	5.12E+14	34.88%	1.39E+21
	A-2	18.76	5367.10	136.32	6.53E+14	42.60%	1.72E+21
	A-3	16.70	5897.26	149.79	7.65E+14	49.62%	2.04E+21
	A-4	14.64	6288.21	159.72	8.59E+14	55.00%	2.30E+21
	A-5	12.58	6473.07	164.42	9.38E+14	59.67%	2.53E+21
	A-6	10.52	6554.10	166.47	9.87E+14	62.90%	2.70E+21
	A-7	8.46	6597.78	167.58	1.02E+15	65.32%	2.82E+21
	A-8	6.40	6608.62	167.86	1.04E+15	67.14%	2.91E+21
	A-9	4.34	6607.82	167.84	1.06E+15	68.12%	2.97E+21
	A-10	2.28	6575.32	167.01	1.06E+15	69.56%	3.05E+21
1B5	A-11	-2.28	6492.39	164.91	1.07E+15	70.03%	3.07E+21
	A-12	-4.34	6584.56	167.25	1.06E+15	68.71%	3.00E+21
	A-13	-6.40	6618.58	168.11	1.06E+15	68.37%	2.99E+21
	A-14	-8.46	6586.40	167.29	1.04E+15	67.16%	2.92E+21
	A-15	-10.52	6553.45	166.46	1.01E+15	65.07%	2.81E+21
	A-16	-12.58	6462.22	164.14	9.74E+14	62.49%	2.67E+21
	A-17	-14.64	6368.38	161.76	9.14E+14	58.88%	2.49E+21
	A-18	-16.70	6015.40	152.79	8.25E+14	54.10%	2.26E+21
	A-19	-18.76	5606.24	142.40	7.19E+14	48.25%	1.98E+21
	A-20	-20.82	5062.08	128.58	5.90E+14	41.21%	1.66E+21
	MAX	NA	6618.58	168.11	1.07E+15	70.03%	3.07E+21
	MIN	NA	4495.47	114.18	5.12E+14	34.88%	1.39E+21
	AVG	NA	6190.72	157.24	9.09E+14	58.95%	2.51E+21

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 18. Cycle 143B, MCNP-Calculated HGR and Neutron Flux for AFIP-1 fuel, 0.0 EFPD (BOC), Center Lobe Power at 24.9 MW.³

Plate ID	Cell	MCNP Cell Elevation ^(a) (inches)	Fission Power Density (W/cc)	Surface Heat Flux (W/cm ²)	Neutron Flux (n/cm ² sec)
1T2	A-1	20.82	3152.49	80.07	4.28E+14
	A-2	18.76	3635.94	92.35	5.53E+14
	A-3	16.70	4097.70	104.08	6.71E+14
	A-4	14.64	4483.23	113.87	7.79E+14
	A-5	12.58	4654.66	118.23	8.64E+14
	A-6	10.52	5006.52	127.17	9.50E+14
	A-7	8.46	4976.79	126.41	1.01E+15
	A-8	6.40	5112.12	129.85	1.05E+15
	A-9	4.34	5186.15	131.73	1.09E+15
	A-10	2.28	5288.18	134.32	1.10E+15
1B5	A-11	-2.28	5245.47	133.23	1.10E+15
	A-12	-4.34	5214.73	132.45	1.10E+15
	A-13	-6.40	5093.46	129.37	1.07E+15
	A-14	-8.46	5066.70	128.69	1.04E+15
	A-15	-10.52	4965.31	126.12	9.98E+14
	A-16	-12.58	4916.91	124.89	9.36E+14
	A-17	-14.64	4617.87	117.29	8.59E+14
	A-18	-16.70	4403.45	111.85	7.67E+14
	A-19	-18.76	4102.00	104.19	6.54E+14
	A-20	-20.82	3608.31	91.65	5.22E+14
	MAX	NA	5288.18	134.32	1.10E+15
	MIN	NA	3152.49	80.07	4.28E+14
	AVG	NA	4641.40	117.89	8.77E+14

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 19. Cycle 143B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 18.0 EFPD (MOC1), Center Lobe Power at 24.9 MW (118.9 EFPD Cumulative).³

Plate ID	Cell	MCNP Cell Elevation ^(a) (inches)	Fission Power Density (W/cc)	Surface Heat Flux (W/cm ²)	Neutron Flux (n/cm ² sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
1T2	A-1	20.82	3511.48	89.19	4.84E+14	38.85%	1.55E+21
	A-2	18.76	4018.57	102.07	6.16E+14	47.04%	1.91E+21
	A-3	16.70	4401.84	111.81	7.30E+14	54.44%	2.25E+21
	A-4	14.64	4686.84	119.05	8.34E+14	60.12%	2.53E+21
	A-5	12.58	4709.78	119.63	9.05E+14	64.87%	2.77E+21
	A-6	10.52	4894.49	124.32	9.73E+14	68.33%	2.95E+21
	A-7	8.46	4913.92	124.81	1.02E+15	70.64%	3.08E+21
	A-8	6.40	4950.67	125.75	1.04E+15	72.52%	3.18E+21
	A-9	4.34	4980.95	126.52	1.07E+15	73.55%	3.24E+21
	A-10	2.28	4932.20	125.28	1.06E+15	74.99%	3.32E+21
1B5	A-11	-2.28	4832.84	122.75	1.07E+15	75.39%	3.34E+21
	A-12	-4.34	4895.47	124.34	1.07E+15	74.11%	3.27E+21
	A-13	-6.40	4881.41	123.99	1.06E+15	73.67%	3.25E+21
	A-14	-8.46	4889.80	124.20	1.04E+15	72.48%	3.18E+21
	A-15	-10.52	4860.54	123.46	1.00E+15	70.37%	3.07E+21
	A-16	-12.58	4734.13	120.25	9.55E+14	67.83%	2.93E+21
	A-17	-14.64	4735.99	120.29	8.90E+14	64.09%	2.72E+21
	A-18	-16.70	4602.38	116.90	8.10E+14	59.17%	2.49E+21
	A-19	-18.76	4340.38	110.25	7.04E+14	53.12%	2.19E+21
	A-20	-20.82	3881.42	98.59	5.74E+14	45.63%	1.85E+21
	MAX	NA	4980.95	126.52	1.07E+15	75.39%	3.34E+21
	MIN	NA	3511.48	89.19	4.84E+14	38.85%	1.55E+21
	AVG	NA	4632.76	117.67	8.96E+14	64.06%	2.75E+21

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 20. Cycle 143B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 38.0 EFPD (MOC2), Center Lobe Power at 24.9 MW (138.9 EFPD Cumulative).³

Plate ID	Cell	MCNP Cell Elevation ^(a) (inches)	Fission Power Density (W/cc)	Surface Heat Flux (W/cm ²)	Neutron Flux (n/cm ² sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
1T2	A-1	20.82	3642.74	92.53	5.09E+14	43.72%	1.75E+21
	A-2	18.76	4187.51	106.36	6.48E+14	52.40%	2.14E+21
	A-3	16.70	4404.04	111.86	7.67E+14	60.07%	2.51E+21
	A-4	14.64	4638.06	117.81	8.62E+14	65.88%	2.81E+21
	A-5	12.58	4582.66	116.40	9.31E+14	70.50%	3.05E+21
	A-6	10.52	4673.34	118.70	9.89E+14	73.98%	3.24E+21
	A-7	8.46	4634.67	117.72	1.03E+15	76.20%	3.37E+21
	A-8	6.40	4561.74	115.87	1.05E+15	78.01%	3.47E+21
	A-9	4.34	4493.33	114.13	1.06E+15	79.01%	3.53E+21
	A-10	2.28	4517.96	114.76	1.06E+15	80.31%	3.61E+21
1B5	A-11	-2.28	4418.80	112.24	1.06E+15	80.59%	3.62E+21
	A-12	-4.34	4461.50	113.32	1.06E+15	79.44%	3.56E+21
	A-13	-6.40	4538.84	115.29	1.06E+15	79.00%	3.54E+21
	A-14	-8.46	4487.38	113.98	1.04E+15	77.89%	3.47E+21
	A-15	-10.52	4528.31	115.02	1.01E+15	75.84%	3.35E+21
	A-16	-12.58	4618.70	117.31	9.72E+14	73.33%	3.20E+21
	A-17	-14.64	4514.57	114.67	9.10E+14	69.78%	3.00E+21
	A-18	-16.70	4517.01	114.73	8.35E+14	64.89%	2.75E+21
	A-19	-18.76	4310.05	109.48	7.27E+14	58.73%	2.45E+21
	A-20	-20.82	3988.12	101.30	5.96E+14	50.85%	2.07E+21
	MAX	NA	4673.34	118.70	1.06E+15	80.59%	3.62E+21
	MIN	NA	3642.74	92.53	5.09E+14	43.72%	1.75E+21
	AVG	NA	4435.97	112.67	9.09E+14	69.52%	3.02E+21

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 21. Cycle 143B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-1 fuel, 57.3 EFPD (EOC), Center Lobe Power at 24.9 MW (158.2 EFPD Cumulative).³

Plate ID	Cell	MCNP Cell Elevation ^(a) (inches)	Fission Power Density (W/cc)	Surface Heat Flux (W/cm ²)	Neutron Flux (n/cm ² sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
1T2	A-1	20.82	3746.04	95.15	5.07E+14	48.61%	1.96E+21
	A-2	18.76	4327.45	109.92	6.46E+14	57.76%	2.38E+21
	A-3	16.70	4579.03	116.31	7.64E+14	65.46%	2.76E+21
	A-4	14.64	4869.80	123.69	8.59E+14	71.27%	3.07E+21
	A-5	12.58	4833.14	122.76	9.26E+14	75.64%	3.31E+21
	A-6	10.52	4961.85	126.03	9.86E+14	79.00%	3.51E+21
	A-7	8.46	4916.25	124.87	1.02E+15	81.06%	3.63E+21
	A-8	6.40	4877.30	123.88	1.04E+15	82.67%	3.73E+21
	A-9	4.34	4805.66	122.06	1.06E+15	83.52%	3.79E+21
	A-10	2.28	4806.01	122.07	1.06E+15	84.75%	3.87E+21
1B5	A-11	-2.28	4724.65	120.01	1.06E+15	84.91%	3.88E+21
	A-12	-4.34	4783.87	121.51	1.06E+15	83.90%	3.81E+21
	A-13	-6.40	4882.71	124.02	1.06E+15	83.56%	3.80E+21
	A-14	-8.46	4802.45	121.98	1.03E+15	82.48%	3.72E+21
	A-15	-10.52	4830.98	122.71	1.00E+15	80.59%	3.61E+21
	A-16	-12.58	4910.92	124.74	9.69E+14	78.32%	3.47E+21
	A-17	-14.64	4775.40	121.30	9.06E+14	74.88%	3.26E+21
	A-18	-16.70	4743.98	120.50	8.33E+14	70.17%	3.01E+21
	A-19	-18.76	4480.04	113.79	7.23E+14	64.02%	2.69E+21
	A-20	-20.82	4121.47	104.69	5.94E+14	56.01%	2.30E+21
	MAX	NA	4961.85	126.03	1.06E+15	84.91%	3.88E+21
	MIN	NA	3746.04	95.15	5.07E+14	48.61%	1.96E+21
	AVG	NA	4688.95	119.10	9.05E+14	74.43%	3.28E+21

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 22. Corrected fission power density (W/cc) and fission density (fissions/cc) for ATR Cycle 142B.

Plate ID	Cell	BOC 142B	MOC1 142B		MOC2 142B		EOC 142B	
		Fission Power Density (W/cc)	Fission Power Density (W/cc)	Fission Density (fissions/cc)	Fission Power Density (W/cc)	Fission Density (fissions/cc)	Fission Power Density (W/cc)	Fission Density (fissions/cc)
1T2	A-1	4116.02	4125.37	1.94E+20	4817.30	3.61E+20	4543.35	6.86E+20
	A-2	5220.03	5235.59	2.46E+20	6025.53	4.58E+20	5619.51	8.64E+20
	A-3	6536.71	6463.76	3.08E+20	7375.64	5.70E+20	6683.64	1.07E+21
	A-4	7517.32	7436.13	3.55E+20	8407.60	6.56E+20	7505.46	1.22E+21
	A-5	8562.50	8232.31	4.04E+20	9304.18	7.37E+20	8175.38	1.36E+21
	A-6	9321.95	8829.07	4.40E+20	9846.67	7.97E+20	8557.51	1.46E+21
	A-7	9983.55	9407.51	4.71E+20	10334.16	8.52E+20	8891.83	1.55E+21
	A-8	10468.92	9778.45	4.94E+20	10581.38	8.90E+20	9020.48	1.60E+21
	A-9	10709.32	9870.26	5.05E+20	10846.08	9.05E+20	9210.85	1.64E+21
	A-10	11249.07	10318.04	5.31E+20	11194.54	9.49E+20	9380.71	1.70E+21
1B5	A-11	11317.95	10066.39	5.34E+20	10978.33	9.42E+20	9147.57	1.68E+21
	A-12	10728.51	9759.29	5.06E+20	10654.89	9.01E+20	9016.76	1.62E+21
	A-13	10603.00	9736.03	5.00E+20	10675.82	8.95E+20	9019.86	1.61E+21
	A-14	10395.43	9411.97	4.91E+20	10455.75	8.72E+20	8891.05	1.58E+21
	A-15	9935.41	9109.07	4.69E+20	9985.61	8.38E+20	8562.01	1.51E+21
	A-16	9234.17	8641.45	4.36E+20	9502.76	7.86E+20	8232.80	1.43E+21
	A-17	8330.00	7813.37	3.93E+20	8819.85	7.09E+20	7783.00	1.30E+21
	A-18	7355.31	7037.76	3.47E+20	8055.62	6.32E+20	7172.06	1.17E+21
	A-19	6288.21	6057.16	2.97E+20	6935.31	5.42E+20	6328.58	1.01E+21
	A-20	5066.25	5042.61	2.39E+20	5787.39	4.43E+20	5396.78	8.33E+20

Table 23. Corrected fission power density (W/cc) and fission density (fissions/cc) for ATR Cycle 143A.

Plate ID	Cell	BOC 143A	MOC1 143A		MOC2 143A		EOC 143A	
		Fission Power Density (W/cc)	Fission Power Density (fissions/cc)	Fission Power Density (W/cc)	Fission Power Density (fissions/cc)	Fission Power Density (W/cc)	Fission Power Density (fissions/cc)	
1T2	A-1	3521.18	4121.79	8.71E+20	4211.79	1.12E+21	4068.30	1.25E+21
	A-2	4401.75	4979.68	1.10E+21	5093.34	1.39E+21	4857.10	1.56E+21
	A-3	5008.20	5608.84	1.33E+21	5656.64	1.66E+21	5336.89	1.85E+21
	A-4	5637.57	6192.58	1.52E+21	6070.46	1.89E+21	5690.69	2.08E+21
	A-5	6236.98	6622.98	1.69E+21	6335.80	2.08E+21	5857.98	2.29E+21
	A-6	6655.77	7061.64	1.81E+21	6461.46	2.23E+21	5931.31	2.44E+21
	A-7	7022.55	7165.36	1.92E+21	6549.02	2.34E+21	5970.84	2.55E+21
	A-8	7320.09	7356.82	1.99E+21	6600.11	2.42E+21	5980.65	2.64E+21
	A-9	7580.27	7438.80	2.03E+21	6610.20	2.47E+21	5979.93	2.69E+21
	A-10	7646.07	7449.89	2.10E+21	6585.47	2.55E+21	5950.52	2.76E+21
1B5	A-11	7455.11	7239.13	2.07E+21	6332.97	2.50E+21	5720.17	2.71E+21
	A-12	7452.94	7219.66	2.01E+21	6394.60	2.44E+21	5801.37	2.65E+21
	A-13	7249.81	7273.19	1.99E+21	6420.64	2.43E+21	5831.35	2.63E+21
	A-14	7004.91	7102.82	1.94E+21	6363.41	2.37E+21	5803.00	2.57E+21
	A-15	6720.57	6897.26	1.86E+21	6298.39	2.27E+21	5773.97	2.48E+21
	A-16	6412.56	6591.47	1.76E+21	6176.66	2.15E+21	5693.59	2.35E+21
	A-17	5932.31	6371.10	1.62E+21	6053.43	1.99E+21	5610.91	2.19E+21
	A-18	5397.59	5842.02	1.46E+21	5648.85	1.81E+21	5299.91	1.99E+21
	A-19	4796.53	5270.44	1.26E+21	5208.16	1.57E+21	4939.42	1.74E+21
	A-20	3961.76	4529.31	1.04E+21	4662.62	1.31E+21	4459.98	1.46E+21

Table 24. Corrected fission power density (W/cc) and fission density (fissions/cc) for ATR Cycle 143B.

Plate ID	Cell	BOC 143B	MOC1 143B		MOC2 143B		EOC 143B	
		Fission Power Density (W/cc)	Fission Power Density (fissions/cc)	Fission Power Density (W/cc)	Fission Power Density (fissions/cc)	Fission Power Density (W/cc)	Fission Power Density (fissions/cc)	
1T2	A-1	2852.93	3177.81	1.40E+21	3296.60	1.59E+21	3390.08	1.78E+21
	A-2	3290.45	3636.72	1.73E+21	3789.60	1.94E+21	3916.24	2.16E+21
	A-3	3708.32	3983.56	2.04E+21	3985.56	2.27E+21	4143.91	2.50E+21
	A-4	4057.22	4241.49	2.29E+21	4197.34	2.54E+21	4407.06	2.78E+21
	A-5	4212.37	4262.24	2.51E+21	4147.20	2.76E+21	4373.88	2.99E+21
	A-6	4530.79	4429.41	2.67E+21	4229.27	2.93E+21	4490.36	3.17E+21
	A-7	4503.88	4446.99	2.79E+21	4194.27	3.05E+21	4449.09	3.29E+21
	A-8	4626.35	4480.25	2.88E+21	4128.27	3.14E+21	4413.84	3.37E+21
	A-9	4693.35	4507.65	2.93E+21	4066.36	3.19E+21	4349.01	3.43E+21
	A-10	4785.68	4463.53	3.01E+21	4088.65	3.27E+21	4349.33	3.50E+21
1B5	A-11	4621.56	4258.01	2.95E+21	3893.21	3.19E+21	4162.69	3.42E+21
	A-12	4594.48	4313.19	2.88E+21	3930.84	3.13E+21	4214.86	3.36E+21
	A-13	4487.63	4300.80	2.87E+21	3998.98	3.12E+21	4301.95	3.34E+21
	A-14	4464.06	4308.20	2.80E+21	3953.64	3.05E+21	4231.23	3.28E+21
	A-15	4374.73	4282.41	2.70E+21	3989.70	2.95E+21	4256.37	3.18E+21
	A-16	4332.08	4171.04	2.58E+21	4069.34	2.82E+21	4326.80	3.05E+21
	A-17	4068.60	4172.68	2.40E+21	3977.59	2.64E+21	4207.40	2.87E+21
	A-18	3879.69	4054.96	2.19E+21	3979.74	2.43E+21	4179.72	2.65E+21
	A-19	3614.10	3824.12	1.93E+21	3797.40	2.15E+21	3947.17	2.37E+21
	A-20	3179.13	3419.75	1.63E+21	3513.76	1.83E+21	3631.25	2.03E+21

6.2 Axial Gradient

The axial gradient is represented by the neutron flux profile and the corrected fission density profile as shown in Figure 10 and Figure 11, respectively. Since the AFIP-1 experiment was irradiated in the CFT, the transverse (radial) profile is relatively flat across the plates and was not reported.

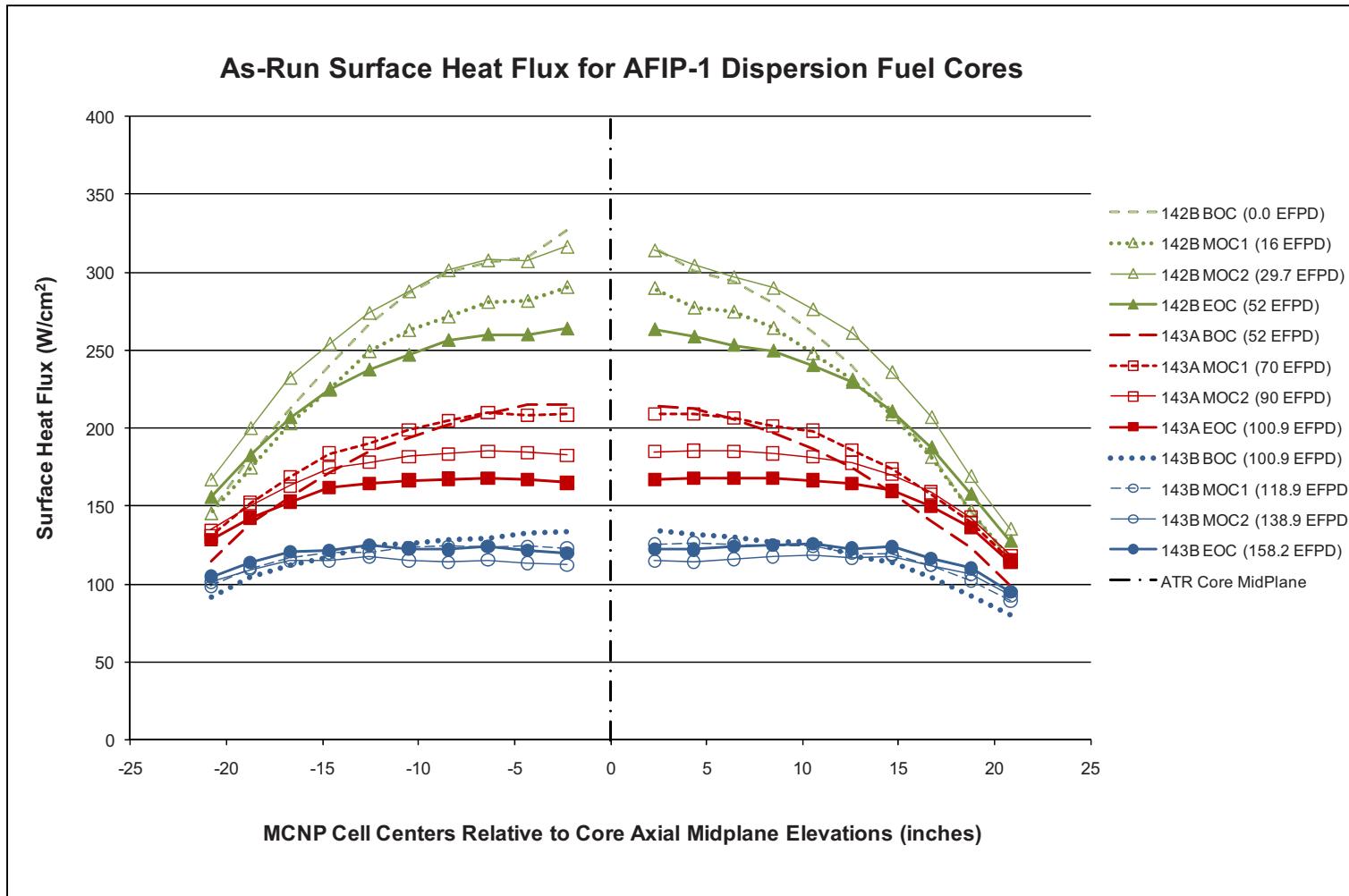


Figure 10. AFIP-1 axial neutron flux profile.³

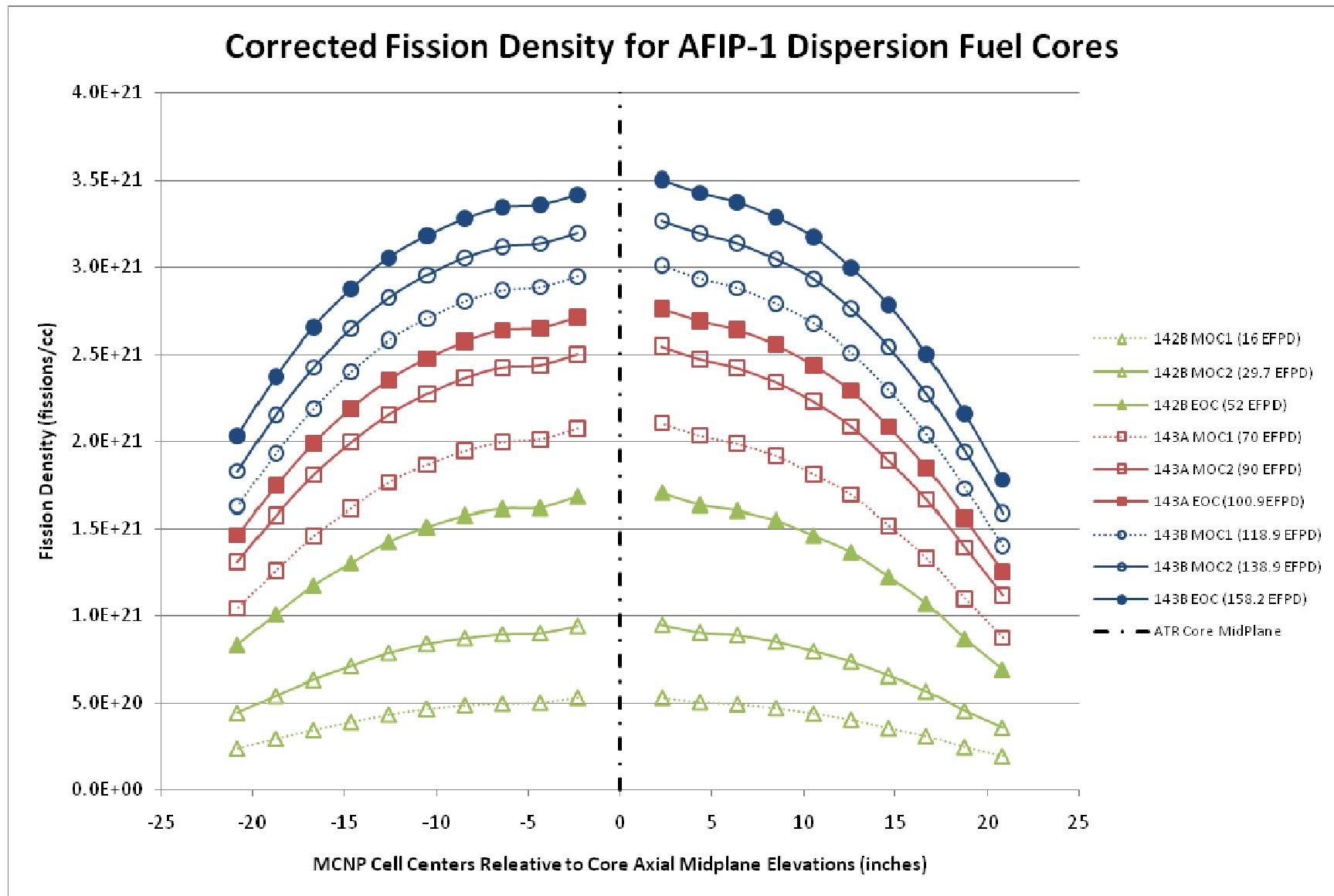


Figure 11. AFIP-1 fission density axial profile³.

7. HYDRAULIC TESTING

Flow tests were performed to characterize the test assembly designed to irradiate full-size plates for the RERTR program in the ATR. The holder assembly design was used for several plate tests that were conducted in the CFT position⁶.

The test apparatus was designed and constructed to simulate the ATR CFT position geometry. The holder was fabricated such that the orifice plate on the bottom of the test train could be screwed on (rather than welded) to allow variation of the orifice diameter. The results of the flow tests were used to generate estimates of the coolant velocity and flow rate and are reported in Table 25⁶.

Table 25. AFIP irradiation vehicle flow conditions for each orifice configuration.⁶

Configuration	Total Internal Loss Coefficient	Total Holder Internal Flow (gpm)	Channel Coolant Flow (gpm)	Channel Coolant Velocity (m/s)
6 mm orifice	0.1709	20.8	6.6	1.7
7 mm orifice	0.1203	24.8	7.9	2.0
8 mm orifice	0.0869	29.2	9.3	2.4
8.1 mm orifice	0.0861	29.3	9.3	2.4
9 mm orifice	0.0680	33.0	10.5	2.7
10 mm orifice	0.0568	36.1	11.5	3.0
Open (no orifice)	0.00164	212.5	67.5	17.4

Based on the results from the hydraulic testing, the orifice was sized to 0.8125 inches (20.64 mm) to provide a coolant channel velocity of approximately 34 ft/s for two pump operation⁷.

8. AS-RUN THERMAL ANALYSIS

The thermal as-run analysis was performed using the as-built geometry, MCNP-calculated surface heat flux (W/cm^2) and nominal coolant channel flow rate. ABAQUS⁸ was used to calculate the coolant channel temperatures and plate surface temperatures.

8.1 Coolant Channel Temperature

The coolant temperature⁹ was analyzed at the three flow channels in the test assembly. The left coolant channel is west of plate position B, the center coolant channel is in between plate positions A and B, and the right coolant channel is in between plate position A and the Ram Rod (refer to Figure 1). For each cycle interval, the coolant temperature was plotted as a function of location along the test assembly with 0.0 inches being at the top of the assembly. These plots are show in Figure 12 through Figure 23.

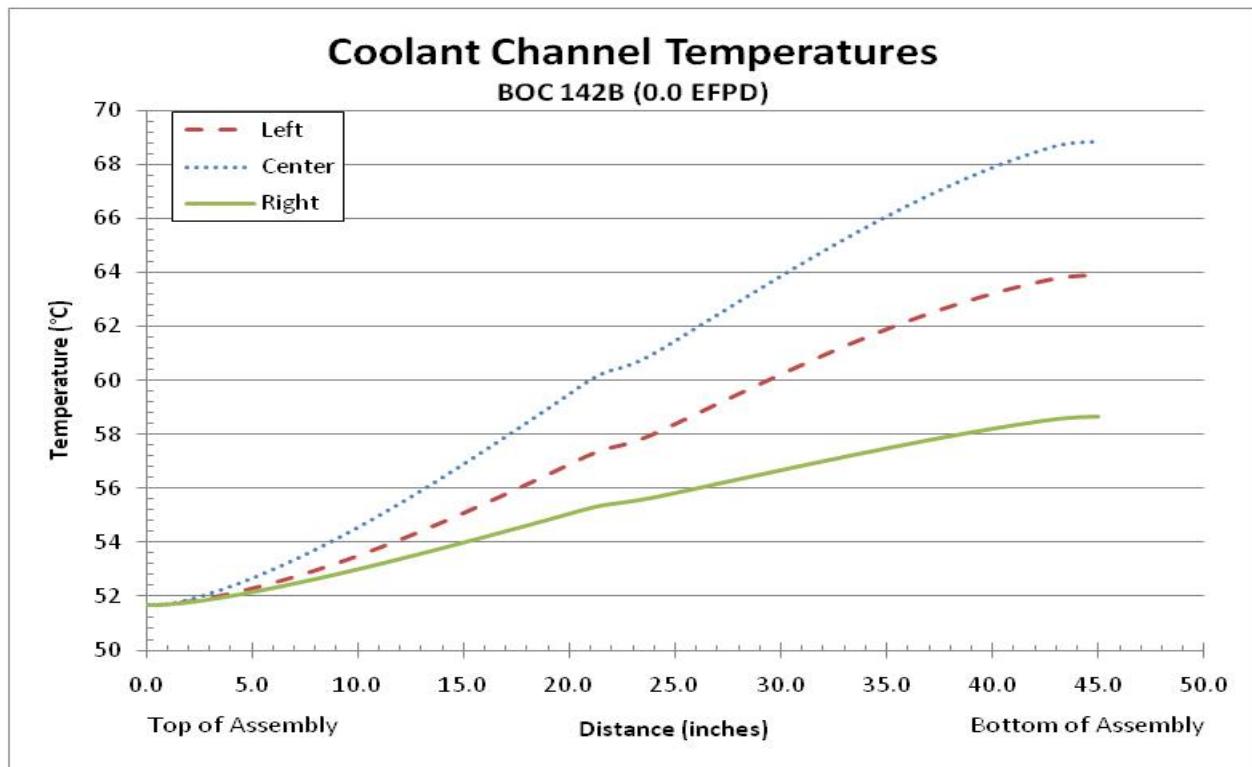


Figure 12. Coolant channel temperatures as a function of location along the test assembly at BOC 142B (0.0 EFPD). NOTE: AFIP-2 was inserted into plate position A and BOC 142B.

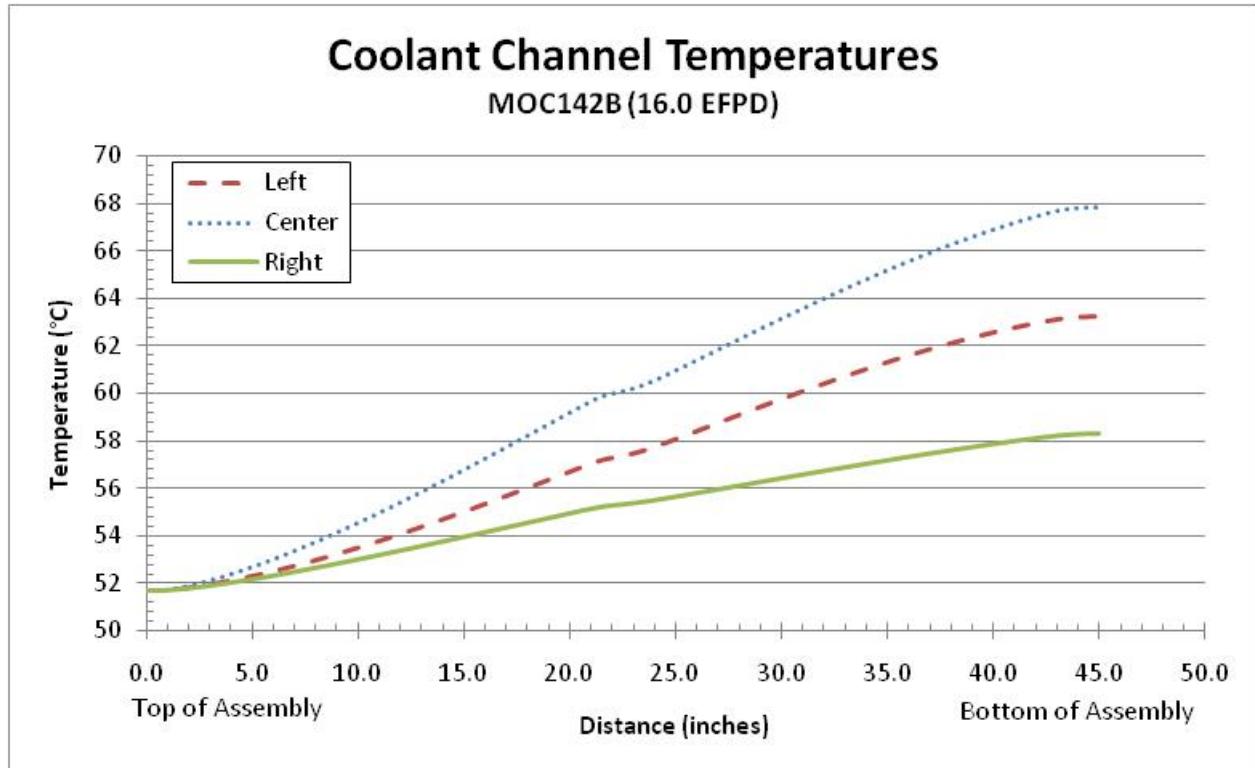


Figure 13. Coolant channel temperatures as a function of location along the test assembly at MOC 142B (16.0 EFPD, cumulative).

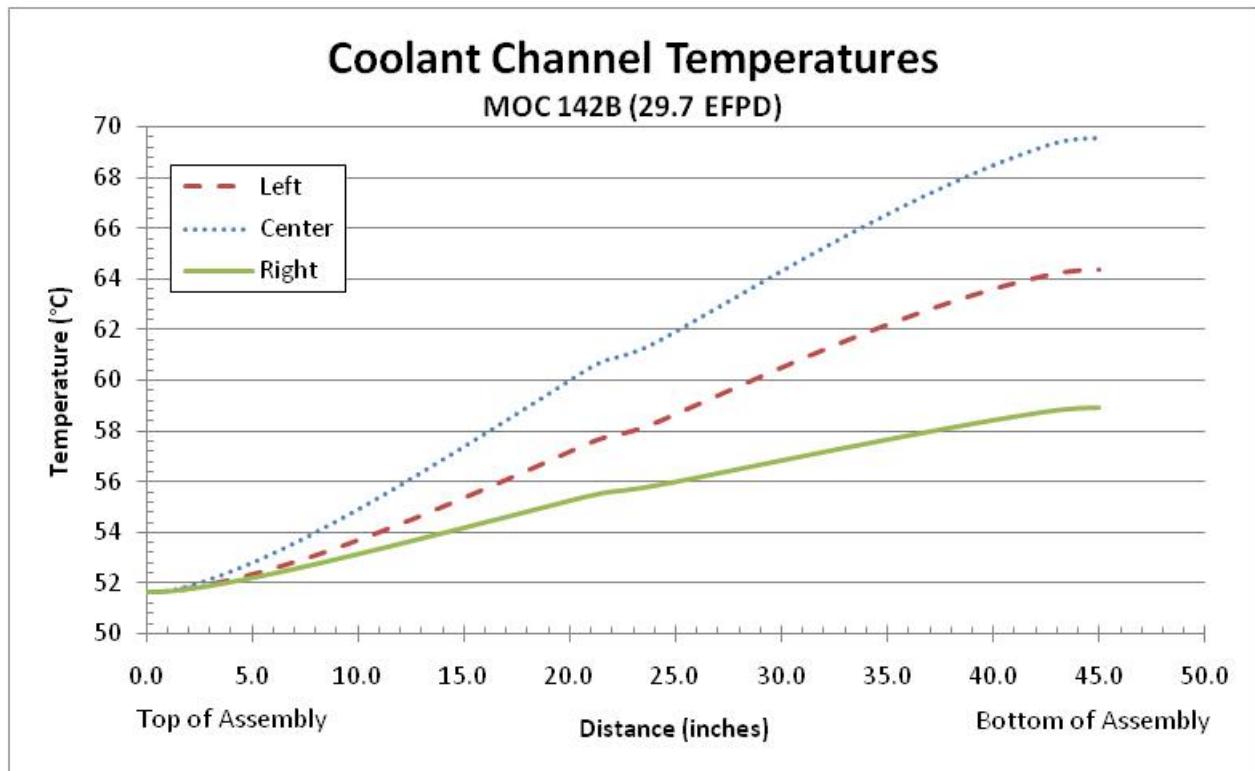


Figure 14. Coolant channel temperatures as a function of location along the test assembly at MOC 142B (29.7 EFPD cumulative).

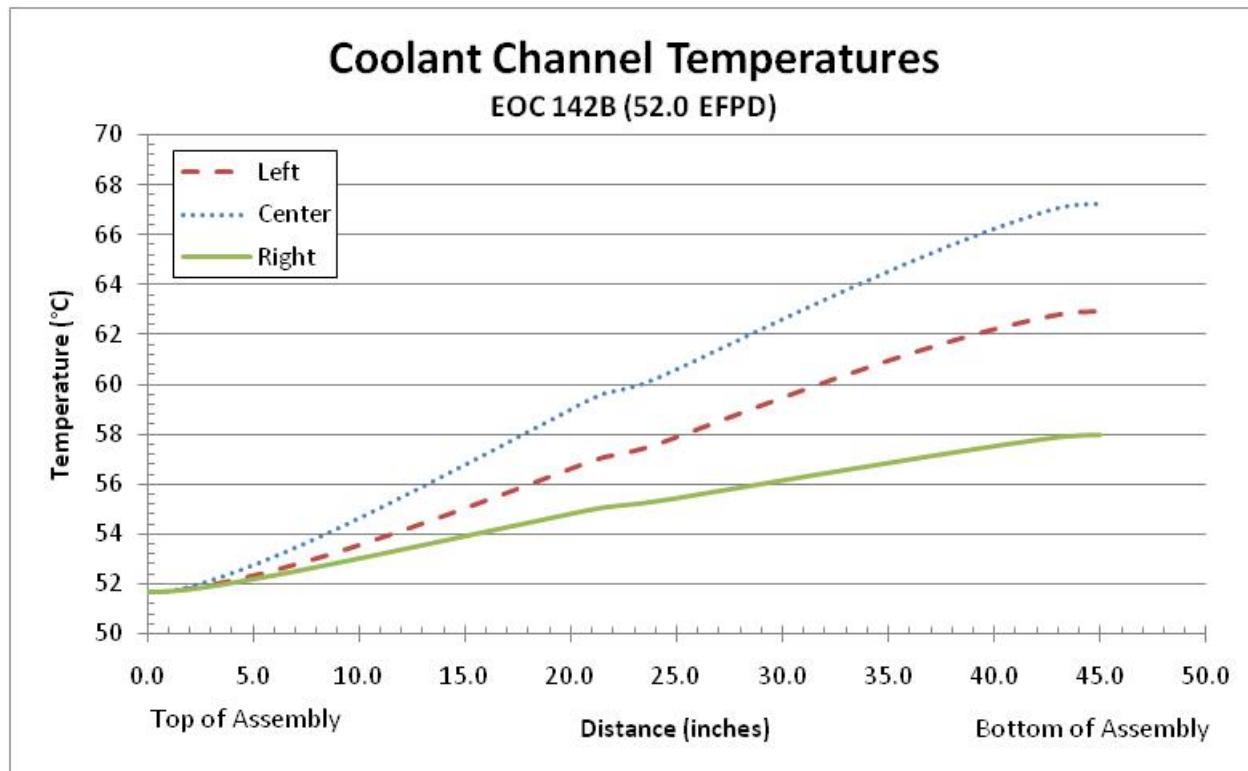


Figure 15. Coolant channel temperatures as a function of location along the test assembly at EOC 142B (52.0 EFPD cumulative).

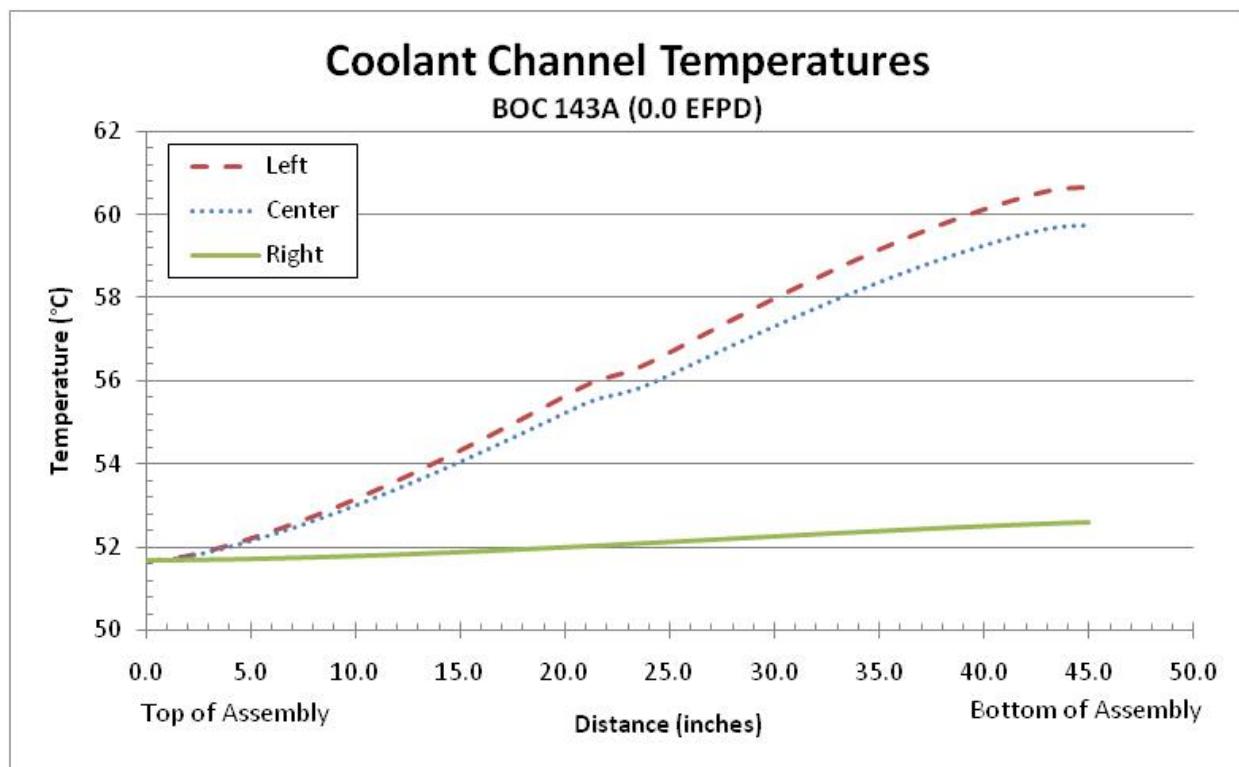


Figure 16. Coolant channel temperatures as a function of location along the test assembly at BOC 143A (52.0 EFPD cumulative).

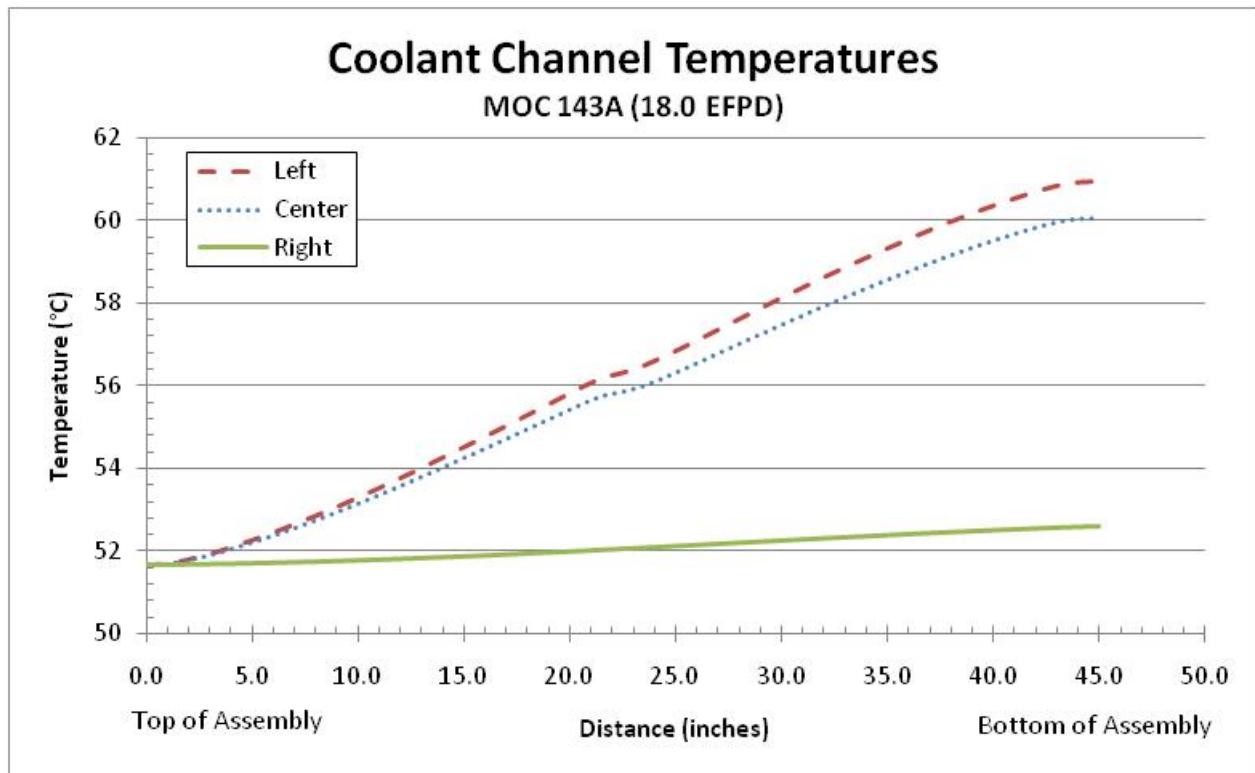


Figure 17. Coolant channel temperatures as a function of location along the test assembly at MOC 143A (70.0 EFPD cumulative).

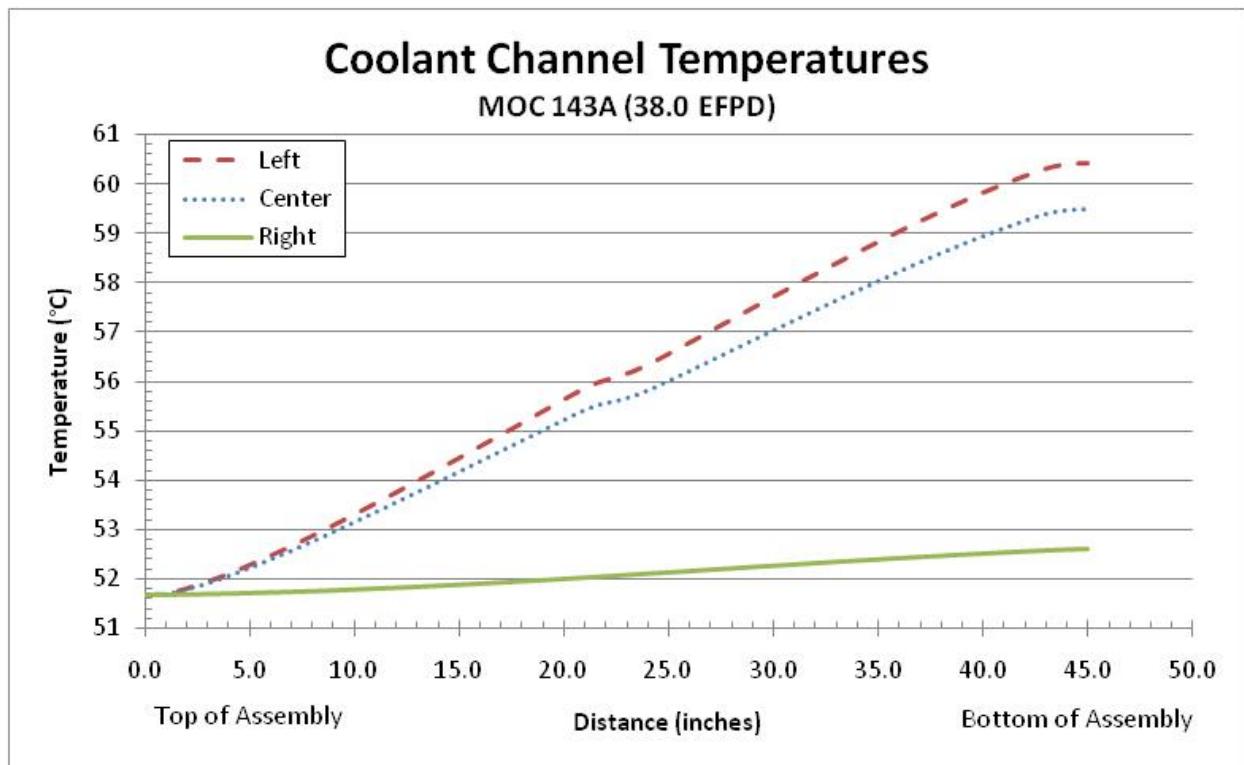


Figure 18. Coolant channel temperatures as a function of location along the test assembly at MOC 143A (90.0 EFPD cumulative).

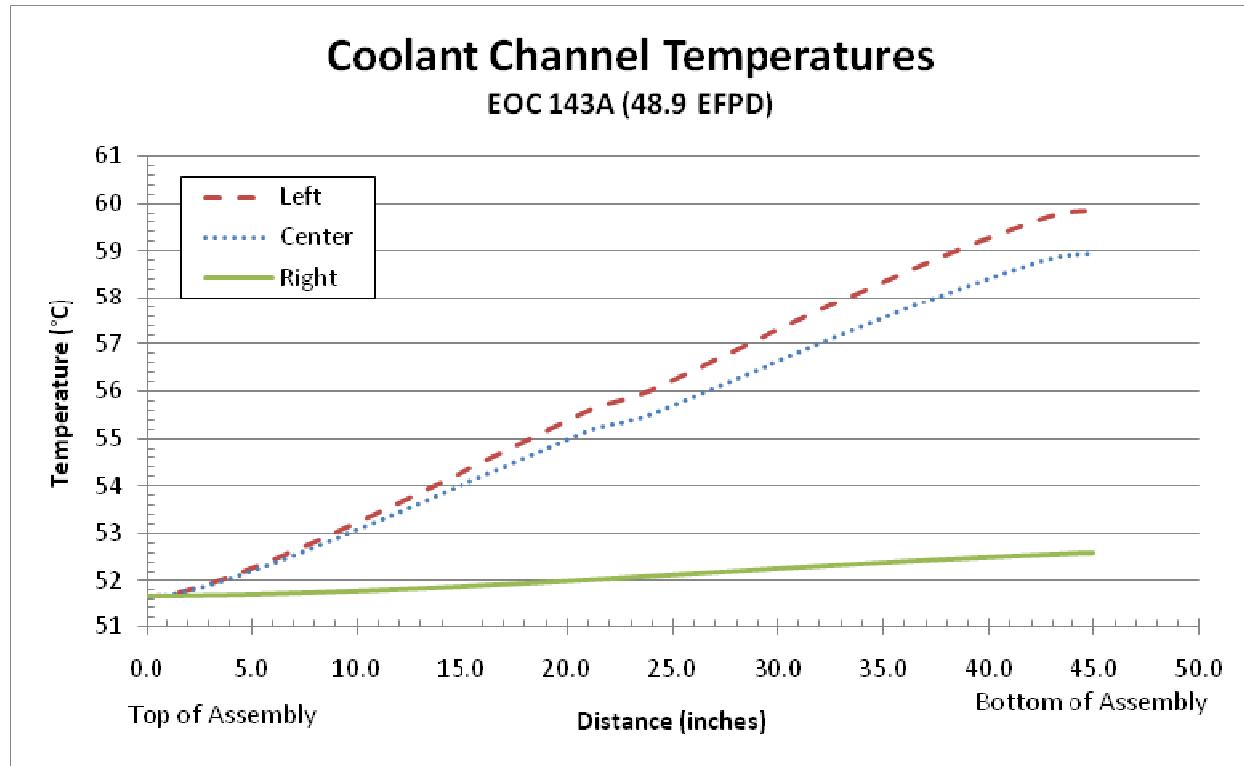


Figure 19. Coolant channel temperatures as a function of location along the test assembly at EOC 143A (100.9 EFPD cumulative).

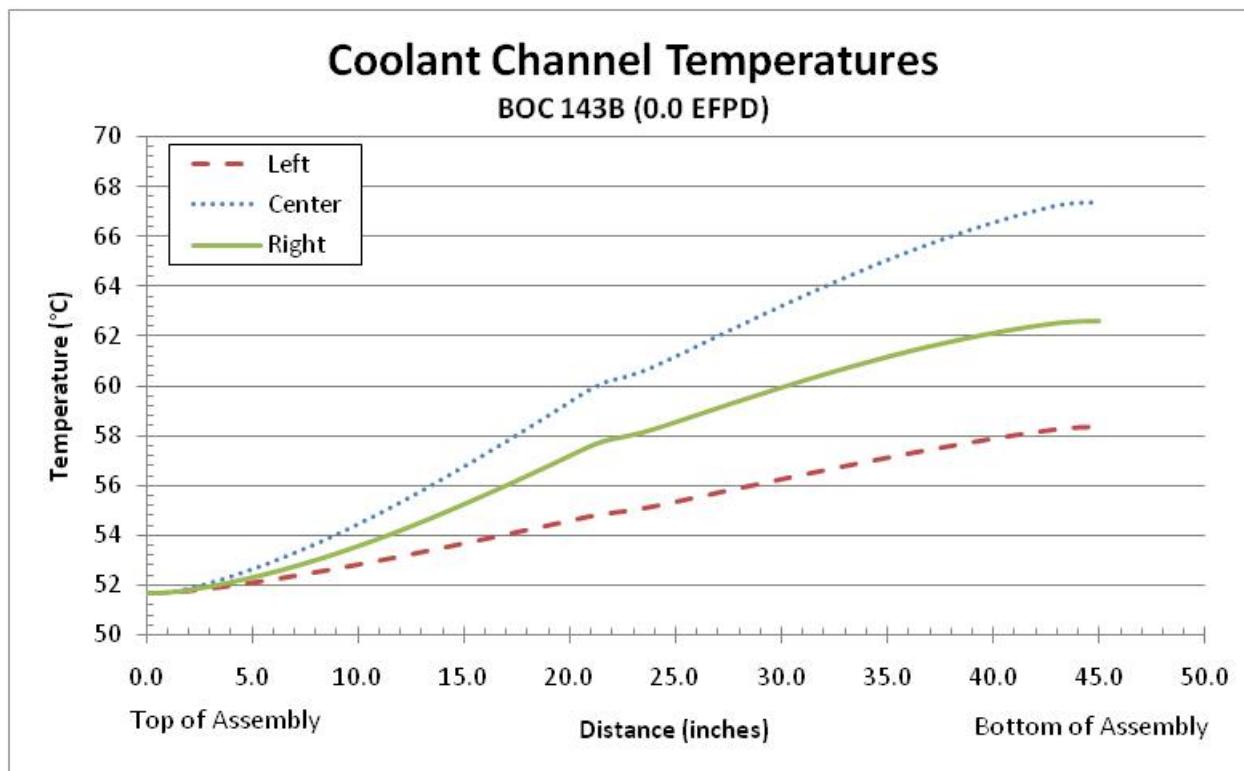


Figure 20. Coolant channel temperatures as a function of location along the test assembly at BOC 143B (100.9 EFPD cumulative). NOTE: AFIP-3 was inserted into plate position A and BOC 143B.

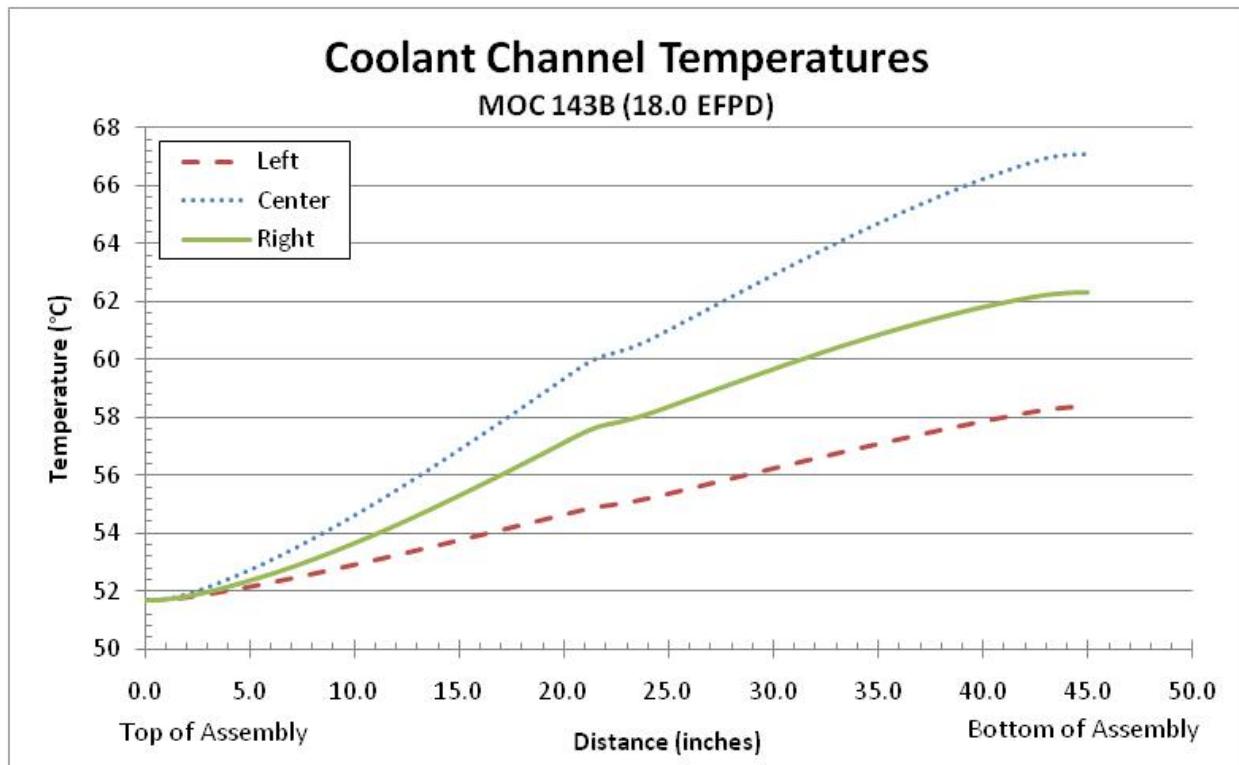


Figure 21. Coolant channel temperatures as a function of location along the test assembly at MOC 143B (118.9 EFPD cumulative).

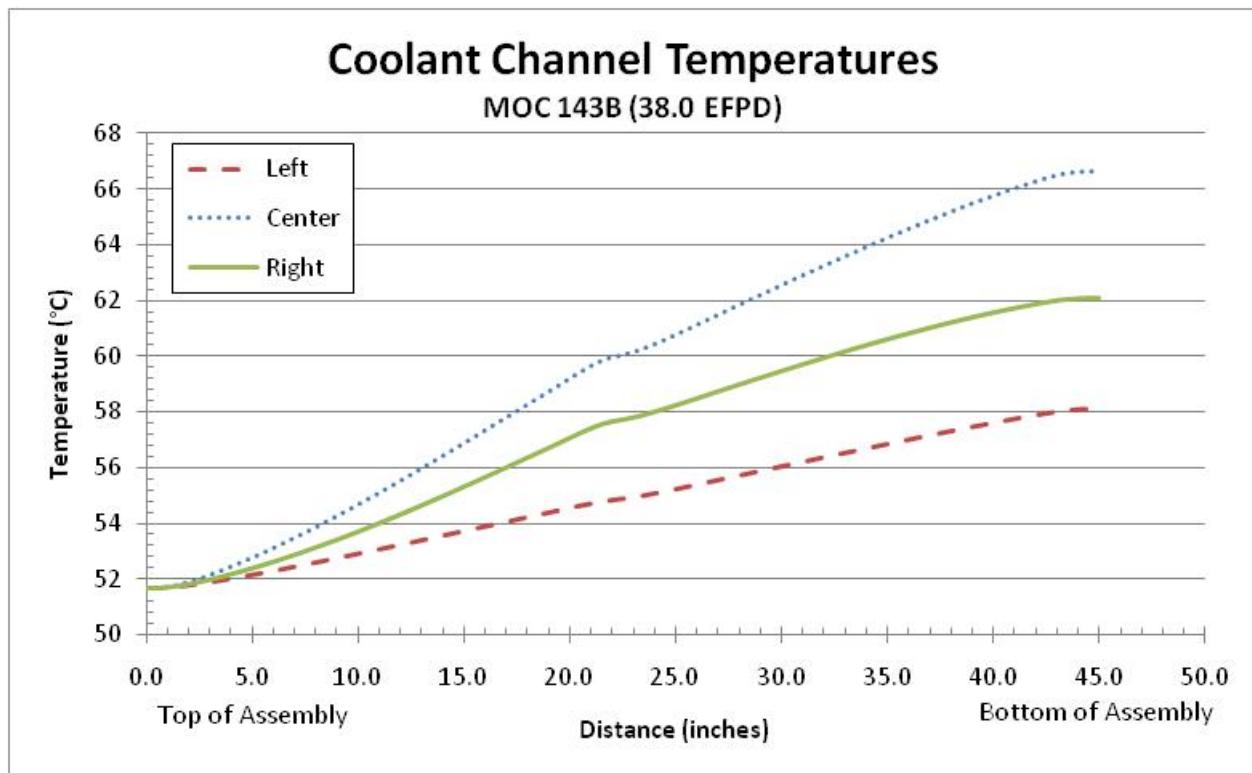


Figure 22. Coolant channel temperatures as a function of location along the test assembly at MOC 143B (138.9 EFPD cumulative).

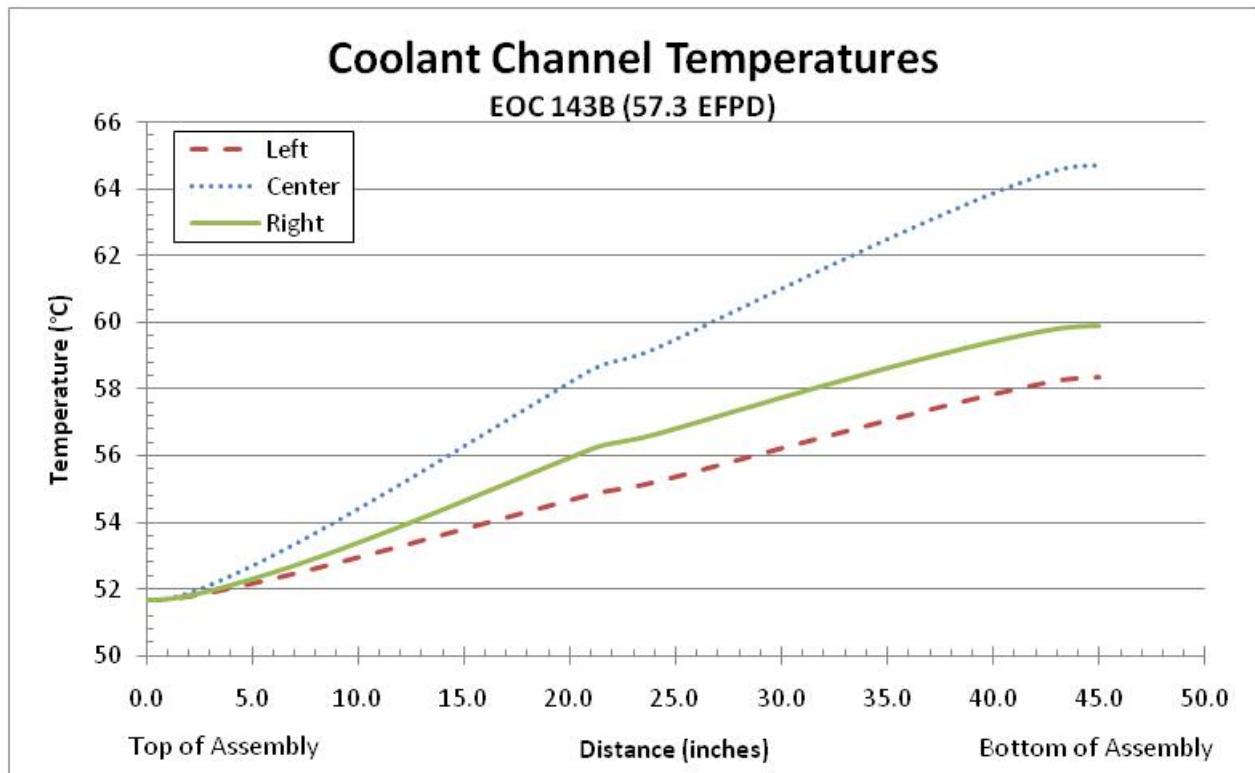


Figure 23. Coolant channel temperatures as a function of location along the test assembly at EOC 143B (158.2 EFPD cumulative).

8.2 Plate Surface Temperature

The plate surface temperatures⁹ were analyzed at each time step for each side of the plate, with the east side of the plate facing the ram rod and west side of the plate facing plate position B. Table 26 through Table 37 tabulate the 2D map of the temperatures for each side of the plate at EOC for each cycle. The plate surface temperatures for each time step are tabulated in Appendix B.

Table 26. Temperature (°C) map of the east side of plate 1T2 at EOC 142B (52.0 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.10	51.80	51.77	51.77	51.77	51.77	51.77	51.78	51.86	52.14
1.00	53.51	52.46	52.57	52.58	52.59	52.59	52.58	52.52	52.47	53.36
2.00	57.97	78.86	81.31	81.36	81.37	81.37	81.36	81.21	68.95	56.13
3.00	58.44	79.14	81.62	81.67	81.68	81.68	81.67	81.50	69.26	56.43
4.00	59.63	84.80	87.69	87.75	87.76	87.76	87.75	87.57	73.07	57.33
5.00	60.00	85.04	87.93	88.00	88.01	88.01	87.99	87.81	73.32	57.58
6.00	61.19	90.43	93.70	93.78	93.79	93.79	93.77	93.57	76.99	58.35
7.00	61.54	90.68	93.95	94.03	94.05	94.04	94.02	93.81	77.26	58.61
8.00	62.56	94.80	98.34	98.43	98.45	98.44	98.42	98.20	80.14	59.28
9.00	62.90	95.05	98.60	98.70	98.72	98.71	98.68	98.45	80.60	60.52
10.00	63.74	98.36	102.38	102.49	102.52	102.51	102.47	102.20	82.86	60.88
11.00	64.08	98.66	102.69	102.81	102.84	102.83	102.78	102.50	83.06	60.69
12.00	64.75	100.82	105.00	105.13	105.16	105.16	105.10	104.80	84.54	60.98
13.00	65.08	101.13	105.31	105.45	105.48	105.48	105.41	105.11	84.85	61.34
14.00	65.62	103.01	107.32	107.46	107.50	107.50	107.43	107.11	86.14	61.83
15.00	65.95	103.32	107.64	107.79	107.82	107.82	107.75	107.42	86.42	62.02
16.00	66.39	104.27	108.64	108.79	108.83	108.83	108.75	108.41	87.12	62.24
17.00	66.69	104.58	108.95	109.11	109.16	109.15	109.06	108.72	87.53	63.37
18.00	67.11	105.77	110.21	110.38	110.43	110.42	110.33	109.98	88.50	64.05
19.00	67.42	106.09	110.53	110.71	110.75	110.75	110.65	110.29	88.68	64.10
20.00	67.84	107.22	111.73	111.91	111.96	111.96	111.85	111.48	89.39	63.76
21.00	68.09	107.50	112.01	112.20	112.25	112.25	112.14	111.76	89.64	63.73
22.00	62.00	64.89	66.21	66.38	66.44	66.43	66.30	65.86	62.76	60.06
22.50	60.00	59.28	59.46	59.60	59.66	59.65	59.52	59.30	59.27	59.62

Table 27. Temperature (°C) map of the west side of plate 1T2 at EOC 142B (52.0 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.36	51.80	51.77	51.77	51.77	51.77	51.77	51.78	51.85	52.34
1.00	53.87	52.46	52.57	52.58	52.58	52.58	52.58	52.52	52.47	53.62
2.00	57.76	78.83	81.29	81.34	81.35	81.35	81.34	81.19	68.93	55.66
3.00	58.27	79.09	81.56	81.61	81.62	81.62	81.61	81.45	69.22	55.77
4.00	59.39	84.71	87.59	87.66	87.66	87.66	87.65	87.48	72.99	56.60
5.00	59.79	84.90	87.79	87.86	87.86	87.86	87.85	87.67	73.20	56.77
6.00	60.93	90.25	93.52	93.59	93.60	93.59	93.58	93.38	76.83	57.45
7.00	61.35	90.48	93.74	93.82	93.83	93.83	93.81	93.60	77.07	57.76
8.00	62.31	94.51	98.05	98.13	98.14	98.14	98.12	97.90	79.87	58.35
9.00	62.68	94.71	98.25	98.33	98.34	98.34	98.32	98.10	80.28	60.57
10.00	63.51	97.98	101.91	102.02	102.03	102.03	102.00	101.73	82.50	60.65
11.00	63.87	98.19	102.16	102.27	102.28	102.28	102.24	101.97	82.64	59.90
12.00	64.53	100.24	104.40	104.51	104.54	104.53	104.49	104.20	84.07	59.78
13.00	64.87	100.48	104.65	104.77	104.79	104.79	104.74	104.44	84.34	60.08
14.00	65.43	102.30	106.60	106.72	106.75	106.74	106.69	106.38	85.58	60.66
15.00	65.76	102.55	106.85	106.98	107.01	107.00	106.94	106.63	85.80	60.91
16.00	66.19	103.44	107.78	107.91	107.94	107.94	107.88	107.55	86.45	61.10
17.00	66.50	103.68	108.03	108.17	108.20	108.19	108.13	107.80	86.80	63.14
18.00	66.91	104.82	109.23	109.38	109.41	109.40	109.33	108.99	87.72	64.12
19.00	67.22	105.07	109.49	109.64	109.67	109.67	109.59	109.24	87.86	64.00
20.00	67.63	106.14	110.62	110.77	110.81	110.80	110.72	110.37	88.52	62.82
21.00	67.85	106.37	110.84	111.00	111.04	111.03	110.95	110.59	88.72	62.37
22.00	62.42	64.01	65.30	65.44	65.49	65.49	65.37	64.95	61.86	59.36
22.50	60.75	58.36	58.51	58.62	58.68	58.67	58.55	58.35	58.32	60.58

Table 28. Temperature (°C) map of the east side of plate 1B5 at EOC 142B (52.0 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	60.10	59.34	59.53	59.67	59.74	59.73	59.59	59.37	59.29	59.44
23.00	62.04	65.00	66.30	66.47	66.53	66.52	66.38	65.96	62.87	60.11
24.00	68.29	108.08	112.56	112.76	112.81	112.81	112.69	112.32	90.15	63.94
25.00	68.56	108.41	112.90	113.10	113.16	113.16	113.03	112.65	90.47	64.41
26.00	68.73	108.14	112.60	112.80	112.86	112.86	112.73	112.35	90.51	65.31
27.00	68.95	108.43	112.90	113.10	113.17	113.16	113.03	112.64	90.90	65.75
28.00	69.16	108.73	113.20	113.41	113.47	113.47	113.33	112.94	91.04	65.57
29.00	69.36	109.04	113.52	113.73	113.80	113.79	113.65	113.25	91.22	65.16
30.00	69.46	108.71	113.15	113.36	113.43	113.43	113.28	112.88	91.09	65.07
31.00	69.62	108.98	113.42	113.64	113.71	113.70	113.56	113.15	91.38	65.29
32.00	69.54	107.70	112.03	112.25	112.32	112.31	112.16	111.75	90.63	65.18
33.00	69.69	107.96	112.29	112.51	112.59	112.58	112.42	112.01	90.86	65.22
34.00	69.61	106.70	110.90	111.13	111.21	111.20	111.04	110.62	90.13	65.46
35.00	69.73	106.95	111.16	111.39	111.47	111.46	111.30	110.87	90.49	66.17
36.00	69.52	105.06	109.10	109.33	109.41	109.40	109.24	108.81	89.47	66.45
37.00	69.61	105.29	109.34	109.58	109.66	109.65	109.48	109.05	89.56	66.16
38.00	69.26	102.62	106.44	106.68	106.76	106.75	106.57	106.15	87.82	65.35
39.00	69.32	102.84	106.66	106.90	106.98	106.97	106.79	106.37	88.00	65.19
40.00	68.75	98.95	102.44	102.68	102.77	102.76	102.57	102.15	85.63	64.94
41.00	68.76	99.14	102.63	102.87	102.96	102.95	102.76	102.34	85.80	65.04
42.00	68.06	94.74	97.84	98.08	98.17	98.16	97.97	97.55	83.04	64.40
43.00	68.02	94.89	97.99	98.23	98.32	98.31	98.12	97.71	83.18	64.58
44.00	63.63	66.04	66.62	66.85	66.95	66.93	66.71	66.33	65.34	62.21
45.00	62.83	65.46	65.87	66.09	66.18	66.17	65.95	65.64	64.97	61.81

Table 29. Temperature (°C) map of the west side of plate 1B5 at EOC 142B (52.0 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	60.69	58.43	58.58	58.70	58.75	58.74	58.62	58.42	58.34	59.93
23.00	62.52	64.09	65.36	65.51	65.56	65.55	65.43	65.02	61.95	59.45
24.00	68.24	106.83	111.29	111.45	111.50	111.49	111.39	111.04	89.15	62.69
25.00	68.50	107.13	111.59	111.76	111.80	111.80	111.69	111.33	89.43	63.54
26.00	68.64	106.82	111.25	111.42	111.47	111.46	111.35	110.98	89.43	65.27
27.00	68.82	107.07	111.50	111.68	111.73	111.72	111.61	111.23	89.78	65.89
28.00	69.00	107.33	111.77	111.94	111.99	111.98	111.87	111.49	89.90	65.35
29.00	69.18	107.59	112.03	112.21	112.26	112.25	112.13	111.75	90.03	64.20
30.00	69.24	107.22	111.62	111.80	111.85	111.84	111.72	111.33	89.86	63.78
31.00	69.36	107.45	111.85	112.03	112.09	112.07	111.95	111.55	90.09	63.91
32.00	69.24	106.12	110.40	110.59	110.64	110.63	110.50	110.10	89.31	63.65
33.00	69.35	106.36	110.64	110.83	110.89	110.88	110.74	110.34	89.50	63.81
34.00	69.22	105.01	109.17	109.37	109.42	109.41	109.27	108.86	88.72	64.40
35.00	69.29	105.21	109.38	109.58	109.64	109.62	109.48	109.07	89.01	65.79
36.00	69.03	103.26	107.26	107.46	107.52	107.51	107.36	106.95	87.96	66.43
37.00	69.07	103.46	107.46	107.66	107.72	107.71	107.55	107.14	88.01	65.78
38.00	68.67	100.71	104.48	104.68	104.75	104.73	104.57	104.16	86.24	64.23
39.00	68.67	100.88	104.66	104.86	104.92	104.91	104.75	104.34	86.38	63.71
40.00	68.08	96.92	100.36	100.57	100.63	100.61	100.45	100.04	83.95	63.43
41.00	68.02	97.06	100.50	100.71	100.77	100.75	100.59	100.18	84.08	63.63
42.00	67.29	92.58	95.63	95.83	95.90	95.88	95.71	95.31	81.26	62.93
43.00	67.18	92.69	95.74	95.94	96.01	95.99	95.82	95.42	81.36	63.42
44.00	63.22	64.39	64.93	65.13	65.21	65.19	64.99	64.62	63.66	61.93
45.00	62.47	63.81	64.17	64.36	64.44	64.41	64.21	63.92	63.27	61.71

Table 30. Temperature (°C) map of the east side of plate 1T2 at EOC 143A (100.9 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.08	51.79	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.12
1.00	53.17	52.37	52.48	52.49	52.49	52.49	52.49	52.43	52.37	53.07
2.00	56.33	76.26	78.55	78.59	78.60	78.60	78.59	78.45	67.12	54.88
3.00	56.68	76.46	78.77	78.82	78.82	78.82	78.82	78.66	67.35	55.08
4.00	57.48	80.71	83.34	83.39	83.40	83.39	83.39	83.22	70.17	55.70
5.00	57.74	80.85	83.49	83.54	83.55	83.55	83.54	83.37	70.33	55.88
6.00	58.34	83.42	86.24	86.30	86.31	86.31	86.30	86.12	72.06	56.26
7.00	58.59	83.56	86.38	86.44	86.45	86.45	86.44	86.25	72.22	56.45
8.00	59.13	85.48	88.43	88.50	88.50	88.50	88.49	88.30	73.55	56.81
9.00	59.38	85.63	88.57	88.64	88.65	88.65	88.63	88.44	73.88	57.81
10.00	59.74	86.59	89.59	89.66	89.67	89.67	89.65	89.45	74.50	57.90
11.00	59.98	86.73	89.73	89.80	89.81	89.81	89.79	89.59	74.59	57.72
12.00	60.30	87.25	90.27	90.34	90.36	90.36	90.33	90.13	75.00	57.81
13.00	60.52	87.39	90.41	90.48	90.50	90.50	90.47	90.26	75.18	58.07
14.00	60.77	87.72	90.75	90.83	90.84	90.84	90.81	90.60	75.46	58.34
15.00	60.98	87.86	90.88	90.97	90.98	90.98	90.95	90.74	75.60	58.46
16.00	61.22	88.06	91.09	91.17	91.19	91.19	91.15	90.94	75.80	58.57
17.00	61.42	88.20	91.22	91.31	91.33	91.32	91.29	91.07	76.06	59.45
18.00	61.61	88.34	91.36	91.44	91.46	91.46	91.42	91.21	76.32	59.89
19.00	61.79	88.48	91.49	91.58	91.60	91.60	91.56	91.34	76.37	59.89
20.00	61.97	88.49	91.49	91.58	91.60	91.60	91.56	91.34	76.35	59.53
21.00	62.12	88.61	91.60	91.70	91.72	91.71	91.67	91.45	76.47	59.46
22.00	58.70	59.73	60.54	60.62	60.65	60.64	60.58	60.32	58.40	57.53
22.50	57.65	55.96	55.96	56.02	56.04	56.04	55.98	55.89	56.13	57.64

Table 31. Temperature (°C) map of the west side of plate 1T2 at EOC 143A (100.9 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.33	51.79	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.31
1.00	53.65	52.38	52.48	52.49	52.49	52.49	52.49	52.44	52.37	53.40
2.00	56.82	76.26	78.55	78.60	78.60	78.60	78.60	78.46	67.12	54.87
3.00	57.24	76.48	78.78	78.83	78.83	78.83	78.83	78.67	67.35	54.93
4.00	58.08	80.72	83.35	83.41	83.41	83.41	83.40	83.23	70.17	55.56
5.00	58.40	80.88	83.51	83.56	83.57	83.57	83.56	83.38	70.33	55.68
6.00	59.03	83.45	86.27	86.33	86.34	86.34	86.32	86.14	72.07	56.06
7.00	59.34	83.60	86.42	86.48	86.49	86.49	86.47	86.28	72.23	56.29
8.00	59.92	85.53	88.47	88.54	88.55	88.55	88.53	88.34	73.57	56.64
9.00	60.21	85.68	88.62	88.69	88.70	88.70	88.68	88.48	73.89	58.47
10.00	60.61	86.65	89.65	89.73	89.74	89.74	89.71	89.51	74.53	58.36
11.00	60.88	86.80	89.80	89.88	89.89	89.89	89.86	89.65	74.62	57.74
12.00	61.24	87.32	90.35	90.43	90.44	90.44	90.41	90.20	75.04	57.53
13.00	61.49	87.48	90.50	90.58	90.59	90.59	90.56	90.34	75.23	57.75
14.00	61.77	87.82	90.85	90.93	90.95	90.95	90.91	90.69	75.52	58.13
15.00	62.01	87.97	91.00	91.08	91.10	91.10	91.06	90.83	75.67	58.30
16.00	62.28	88.19	91.21	91.30	91.32	91.32	91.28	91.05	75.87	58.40
17.00	62.50	88.34	91.36	91.45	91.47	91.47	91.42	91.19	76.14	60.02
18.00	62.71	88.48	91.50	91.60	91.62	91.61	91.57	91.34	76.40	60.72
19.00	62.91	88.63	91.65	91.75	91.77	91.76	91.71	91.48	76.47	60.60
20.00	63.10	88.66	91.66	91.76	91.78	91.78	91.73	91.49	76.46	59.60
21.00	63.25	88.79	91.79	91.89	91.91	91.91	91.85	91.61	76.59	59.21
22.00	59.88	59.88	60.69	60.78	60.81	60.81	60.73	60.46	58.52	57.46
22.50	58.89	56.12	56.13	56.19	56.22	56.21	56.14	56.03	56.24	58.80

Table 32. Temperature (°C) map of the east side of plate 1B5 at EOC 143A (100.9 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	57.69	56.00	56.00	56.06	56.09	56.08	56.02	55.93	56.13	57.47
23.00	58.78	59.72	60.50	60.58	60.61	60.60	60.54	60.29	58.42	57.62
24.00	62.40	88.45	91.39	91.48	91.51	91.50	91.46	91.24	76.48	59.76
25.00	62.57	88.68	91.63	91.72	91.75	91.74	91.69	91.48	76.71	60.11
26.00	62.75	89.19	92.17	92.27	92.29	92.29	92.24	92.02	77.21	60.82
27.00	62.86	89.33	92.31	92.41	92.44	92.43	92.38	92.16	77.46	61.13
28.00	62.99	89.62	92.61	92.71	92.73	92.73	92.67	92.45	77.59	60.96
29.00	63.09	89.76	92.75	92.86	92.88	92.88	92.82	92.59	77.64	60.60
30.00	63.16	89.75	92.74	92.84	92.86	92.86	92.80	92.57	77.68	60.51
31.00	63.23	89.88	92.86	92.97	92.99	92.99	92.93	92.70	77.83	60.65
32.00	63.28	89.87	92.84	92.94	92.97	92.97	92.91	92.68	77.86	60.63
33.00	63.34	89.99	92.97	93.07	93.10	93.09	93.03	92.80	77.96	60.62
34.00	63.33	89.73	92.68	92.79	92.82	92.81	92.75	92.51	77.84	60.83
35.00	63.36	89.85	92.80	92.91	92.94	92.94	92.87	92.64	78.04	61.32
36.00	63.33	89.57	92.49	92.60	92.63	92.62	92.56	92.32	77.99	61.60
37.00	63.35	89.68	92.61	92.72	92.75	92.74	92.68	92.44	78.00	61.35
38.00	63.12	88.27	91.08	91.20	91.23	91.22	91.15	90.91	77.02	60.76
39.00	63.11	88.37	91.19	91.30	91.33	91.33	91.26	91.02	77.11	60.59
40.00	62.84	86.68	89.36	89.47	89.50	89.50	89.43	89.19	76.04	60.48
41.00	62.80	86.77	89.45	89.57	89.60	89.59	89.52	89.28	76.13	60.52
42.00	62.40	84.44	86.94	87.06	87.09	87.08	87.01	86.77	74.61	60.12
43.00	62.33	84.51	87.02	87.13	87.16	87.16	87.08	86.84	74.68	60.22
44.00	59.12	59.67	60.01	60.12	60.16	60.15	60.05	59.83	59.29	58.57
45.00	58.55	59.14	59.31	59.40	59.44	59.43	59.33	59.18	58.94	58.29

Table 33. Temperature (°C) map of the west side of plate 1B5 at EOC 143A (100.9 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	58.85	56.16	56.17	56.23	56.26	56.26	56.19	56.08	56.24	58.27
23.00	59.97	59.88	60.67	60.76	60.78	60.78	60.70	60.44	58.55	57.55
24.00	63.54	88.67	91.61	91.72	91.74	91.74	91.68	91.44	76.63	59.52
25.00	63.73	88.91	91.87	91.97	91.99	91.99	91.93	91.69	76.87	60.19
26.00	63.89	89.44	92.42	92.53	92.55	92.55	92.48	92.24	77.37	61.55
27.00	64.00	89.59	92.58	92.68	92.71	92.70	92.64	92.39	77.62	61.98
28.00	64.12	89.89	92.88	92.99	93.02	93.01	92.94	92.69	77.77	61.56
29.00	64.21	90.05	93.04	93.15	93.18	93.18	93.10	92.85	77.84	60.65
30.00	64.26	90.05	93.04	93.15	93.18	93.17	93.10	92.84	77.88	60.30
31.00	64.32	90.19	93.18	93.29	93.32	93.31	93.24	92.98	78.04	60.38
32.00	64.34	90.18	93.17	93.28	93.31	93.30	93.22	92.97	78.08	60.24
33.00	64.38	90.32	93.30	93.42	93.45	93.44	93.36	93.10	78.19	60.26
34.00	64.34	90.07	93.03	93.15	93.18	93.17	93.09	92.83	78.08	60.81
35.00	64.35	90.20	93.16	93.28	93.31	93.31	93.22	92.96	78.29	61.83
36.00	64.29	89.93	92.86	92.98	93.01	93.00	92.92	92.65	78.24	62.37
37.00	64.27	90.05	92.99	93.11	93.14	93.13	93.04	92.78	78.26	61.84
38.00	64.02	88.65	91.48	91.60	91.63	91.62	91.53	91.26	77.29	60.70
39.00	63.97	88.76	91.59	91.72	91.75	91.74	91.65	91.37	77.39	60.26
40.00	63.66	87.08	89.78	89.90	89.93	89.92	89.83	89.56	76.33	60.12
41.00	63.58	87.17	89.88	90.00	90.04	90.02	89.93	89.65	76.42	60.24
42.00	63.14	84.86	87.38	87.50	87.54	87.53	87.43	87.16	74.91	59.77
43.00	63.01	84.94	87.46	87.58	87.62	87.61	87.51	87.23	74.98	60.11
44.00	59.80	60.01	60.37	60.48	60.52	60.51	60.39	60.14	59.56	58.92
45.00	59.19	59.48	59.66	59.76	59.81	59.79	59.67	59.50	59.21	58.71

Table 34. Temperature (°C) map of the east side of plate 1T2 at EOC 143B (158.2 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.09	51.80	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.13
1.00	53.41	52.32	52.38	52.39	52.39	52.39	52.39	52.35	52.36	53.28
2.00	57.25	72.64	74.58	74.62	74.63	74.62	74.62	74.49	64.96	55.72
3.00	57.68	72.89	74.83	74.88	74.88	74.88	74.87	74.74	65.23	55.99
4.00	58.56	75.93	78.10	78.16	78.16	78.16	78.15	78.00	67.29	56.71
5.00	58.89	76.14	78.32	78.37	78.38	78.38	78.37	78.21	67.51	56.94
6.00	59.52	77.57	79.84	79.90	79.91	79.91	79.89	79.72	68.52	57.38
7.00	59.88	77.82	80.09	80.16	80.17	80.17	80.15	79.97	68.79	57.64
8.00	60.52	79.43	81.81	81.88	81.90	81.89	81.86	81.68	69.93	58.11
9.00	60.84	79.66	82.04	82.12	82.14	82.14	82.10	81.91	70.35	59.18
10.00	61.22	79.73	82.09	82.18	82.20	82.19	82.15	81.96	70.43	59.31
11.00	61.52	79.97	82.33	82.42	82.44	82.44	82.40	82.20	70.60	59.18
12.00	62.02	80.85	83.26	83.35	83.38	83.37	83.32	83.12	71.28	59.40
13.00	62.31	81.10	83.51	83.61	83.63	83.63	83.57	83.36	71.56	59.72
14.00	62.63	81.15	83.53	83.63	83.66	83.66	83.60	83.38	71.70	60.06
15.00	62.91	81.40	83.78	83.89	83.92	83.92	83.85	83.63	71.94	60.24
16.00	63.20	81.51	83.87	83.98	84.02	84.02	83.94	83.72	72.11	60.38
17.00	63.46	81.76	84.12	84.24	84.28	84.28	84.20	83.97	72.49	61.34
18.00	63.67	81.69	84.02	84.14	84.18	84.18	84.10	83.87	72.63	61.79
19.00	63.92	81.94	84.27	84.40	84.44	84.44	84.35	84.11	72.80	61.86
20.00	64.22	82.22	84.56	84.69	84.73	84.73	84.64	84.40	72.99	61.58
21.00	64.43	82.46	84.79	84.93	84.97	84.97	84.87	84.63	73.22	61.55
22.00	60.55	60.63	61.23	61.36	61.41	61.40	61.29	61.04	59.68	59.07
22.50	59.19	57.92	57.95	58.06	58.11	58.11	58.00	57.86	58.05	58.91

Table 35. Temperature (°C) map of the west side of plate 1T2 at EOC 143B (158.2 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.34	51.80	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.33
1.00	53.74	52.32	52.38	52.39	52.39	52.39	52.39	52.34	52.36	53.52
2.00	56.89	72.61	74.55	74.59	74.60	74.60	74.59	74.46	64.94	55.21
3.00	57.34	72.82	74.76	74.80	74.81	74.81	74.80	74.66	65.18	55.31
4.00	58.10	75.81	77.98	78.03	78.03	78.03	78.02	77.88	67.19	55.95
5.00	58.45	75.96	78.13	78.18	78.19	78.19	78.18	78.02	67.36	56.09
6.00	58.99	77.32	79.58	79.64	79.64	79.64	79.63	79.47	68.31	56.47
7.00	59.36	77.49	79.75	79.81	79.82	79.81	79.80	79.63	68.51	56.74
8.00	59.92	79.02	81.39	81.45	81.46	81.46	81.44	81.27	69.59	57.13
9.00	60.24	79.18	81.54	81.60	81.61	81.61	81.59	81.42	69.93	59.03
10.00	60.56	79.17	81.50	81.57	81.58	81.58	81.56	81.38	69.94	58.92
11.00	60.86	79.32	81.66	81.72	81.74	81.73	81.71	81.53	70.04	58.32
12.00	61.31	80.11	82.48	82.55	82.56	82.56	82.53	82.35	70.64	58.17
13.00	61.60	80.27	82.64	82.71	82.72	82.72	82.69	82.50	70.84	58.43
14.00	61.87	80.22	82.56	82.64	82.65	82.65	82.61	82.43	70.90	58.84
15.00	62.14	80.38	82.72	82.79	82.81	82.81	82.77	82.58	71.06	59.04
16.00	62.40	80.38	82.69	82.77	82.79	82.79	82.75	82.55	71.14	59.16
17.00	62.65	80.54	82.85	82.93	82.95	82.94	82.90	82.71	71.43	60.86
18.00	62.84	80.37	82.65	82.73	82.75	82.75	82.70	82.50	71.49	61.54
19.00	63.06	80.52	82.80	82.88	82.90	82.90	82.85	82.65	71.58	61.48
20.00	63.31	80.70	82.97	83.06	83.08	83.08	83.03	82.83	71.68	60.52
21.00	63.49	80.85	83.11	83.20	83.22	83.22	83.16	82.96	71.83	60.14
22.00	60.53	59.34	59.88	59.97	60.00	60.00	59.92	59.70	58.41	58.31
22.50	59.57	56.58	56.56	56.62	56.66	56.65	56.57	56.48	56.72	59.61

Table 36. Temperature (°C) map of the east side of plate 1B5 at EOC 143B (158.2 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	59.27	57.96	58.00	58.11	58.16	58.15	58.04	57.91	58.06	58.76
23.00	60.47	60.70	61.29	61.42	61.47	61.46	61.35	61.10	59.76	59.03
24.00	64.22	82.53	84.83	84.97	85.02	85.02	84.92	84.67	73.39	61.47
25.00	64.44	82.81	85.12	85.26	85.31	85.31	85.21	84.96	73.67	61.86
26.00	64.64	83.27	85.60	85.75	85.80	85.80	85.69	85.44	74.15	62.59
27.00	64.81	83.49	85.82	85.97	86.02	86.02	85.91	85.65	74.46	62.91
28.00	65.00	84.15	86.52	86.67	86.72	86.71	86.60	86.35	74.86	62.82
29.00	65.15	84.38	86.75	86.90	86.96	86.95	86.84	86.58	74.99	62.50
30.00	65.22	84.22	86.57	86.72	86.78	86.77	86.66	86.39	74.95	62.41
31.00	65.33	84.42	86.77	86.93	86.99	86.98	86.86	86.60	75.17	62.58
32.00	65.44	84.76	87.12	87.28	87.33	87.33	87.21	86.94	75.44	62.60
33.00	65.55	84.98	87.35	87.51	87.57	87.56	87.44	87.17	75.63	62.65
34.00	65.66	85.54	87.94	88.10	88.16	88.16	88.03	87.76	76.07	62.94
35.00	65.74	85.74	88.14	88.31	88.36	88.36	88.23	87.96	76.34	63.45
36.00	65.66	85.32	87.68	87.85	87.91	87.90	87.77	87.49	76.22	63.67
37.00	65.72	85.51	87.87	88.04	88.10	88.10	87.96	87.68	76.30	63.47
38.00	65.70	85.57	87.94	88.10	88.17	88.16	88.03	87.74	76.32	63.02
39.00	65.73	85.75	88.12	88.29	88.35	88.35	88.21	87.93	76.47	62.88
40.00	65.48	84.74	87.02	87.19	87.26	87.25	87.11	86.82	75.87	62.78
41.00	65.48	84.90	87.19	87.36	87.42	87.42	87.28	86.99	76.03	62.84
42.00	65.10	83.45	85.61	85.79	85.85	85.85	85.70	85.42	75.10	62.44
43.00	65.05	83.59	85.75	85.93	85.99	85.99	85.84	85.55	75.22	62.56
44.00	61.66	62.95	63.32	63.48	63.55	63.54	63.38	63.12	62.54	60.64
45.00	61.00	62.54	62.78	62.93	63.00	62.99	62.83	62.63	62.25	60.25

Table 37. Temperature (°C) map of the west side of plate 1B5 at EOC 143B (158.2 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	59.55	56.62	56.59	56.66	56.70	56.69	56.61	56.52	56.73	59.09
23.00	60.55	59.37	59.90	59.99	60.02	60.01	59.94	59.73	58.44	58.34
24.00	63.59	80.74	82.97	83.06	83.08	83.07	83.02	82.82	71.85	60.25
25.00	63.79	80.96	83.19	83.28	83.31	83.30	83.24	83.04	72.07	60.96
26.00	63.95	81.37	83.62	83.71	83.73	83.73	83.67	83.47	72.50	62.32
27.00	64.07	81.52	83.77	83.87	83.89	83.88	83.82	83.62	72.75	62.74
28.00	64.24	82.12	84.41	84.50	84.53	84.52	84.46	84.25	73.10	62.39
29.00	64.34	82.28	84.57	84.66	84.69	84.68	84.62	84.41	73.17	61.51
30.00	64.36	82.06	84.32	84.41	84.44	84.43	84.36	84.15	73.07	61.15
31.00	64.43	82.20	84.46	84.55	84.58	84.57	84.50	84.29	73.23	61.24
32.00	64.50	82.46	84.74	84.83	84.86	84.85	84.78	84.57	73.45	61.14
33.00	64.55	82.62	84.89	84.99	85.02	85.01	84.94	84.72	73.57	61.26
34.00	64.63	83.12	85.43	85.52	85.55	85.54	85.47	85.25	73.95	61.82
35.00	64.65	83.25	85.56	85.66	85.69	85.68	85.60	85.38	74.17	62.84
36.00	64.54	82.76	85.03	85.13	85.15	85.14	85.07	84.85	73.99	63.30
37.00	64.54	82.89	85.16	85.26	85.28	85.27	85.20	84.98	74.02	62.85
38.00	64.49	82.88	85.15	85.25	85.28	85.26	85.19	84.96	73.97	61.84
39.00	64.45	83.00	85.27	85.37	85.40	85.39	85.31	85.08	74.08	61.42
40.00	64.21	81.91	84.09	84.19	84.22	84.21	84.13	83.90	73.42	61.30
41.00	64.14	82.02	84.20	84.30	84.33	84.32	84.24	84.01	73.52	61.43
42.00	63.77	80.48	82.54	82.64	82.67	82.65	82.57	82.34	72.52	61.00
43.00	63.65	80.56	82.63	82.73	82.76	82.74	82.66	82.43	72.61	61.35
44.00	60.73	60.60	60.89	61.00	61.04	61.02	60.91	60.70	60.21	60.16
45.00	60.13	60.18	60.34	60.44	60.48	60.46	60.35	60.20	59.91	59.88

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7. R. G. Ambrosek, “RELAP Analysis for AFIP-2 Flow Resistor,” ECAR-126, January 2008.
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9. G. A. Roth, “AFIP-1 Thermal As-Run Analysis Results,” GAR-03-11, May 2011.

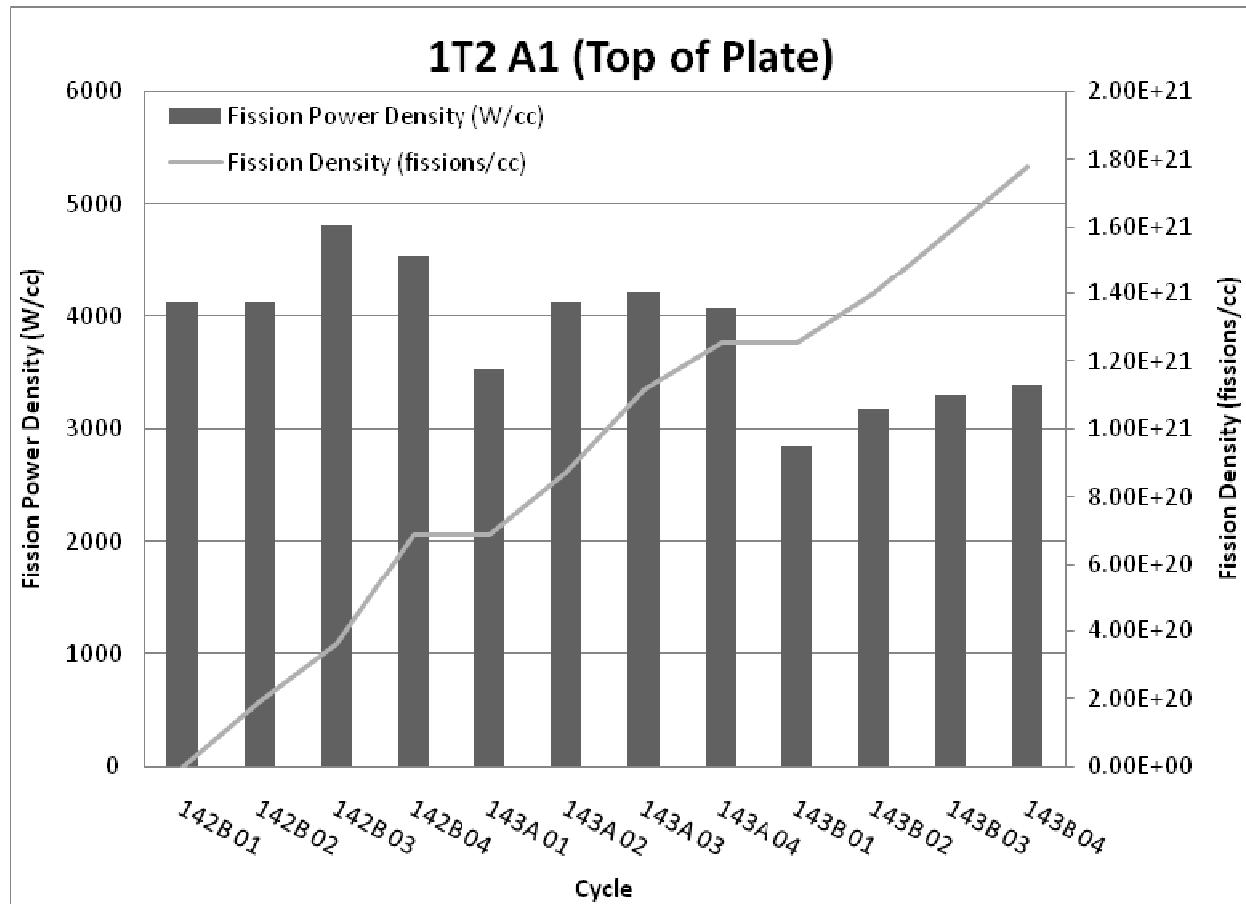
Appendix A

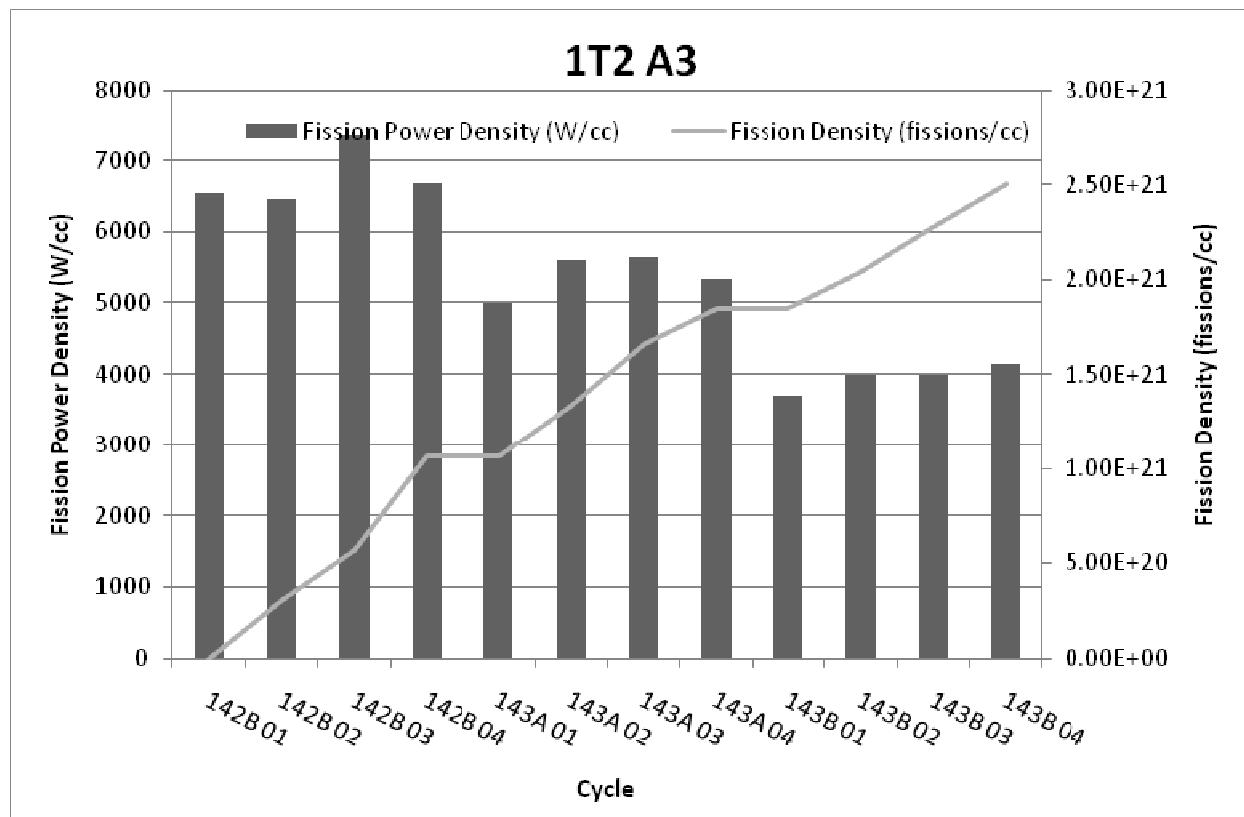
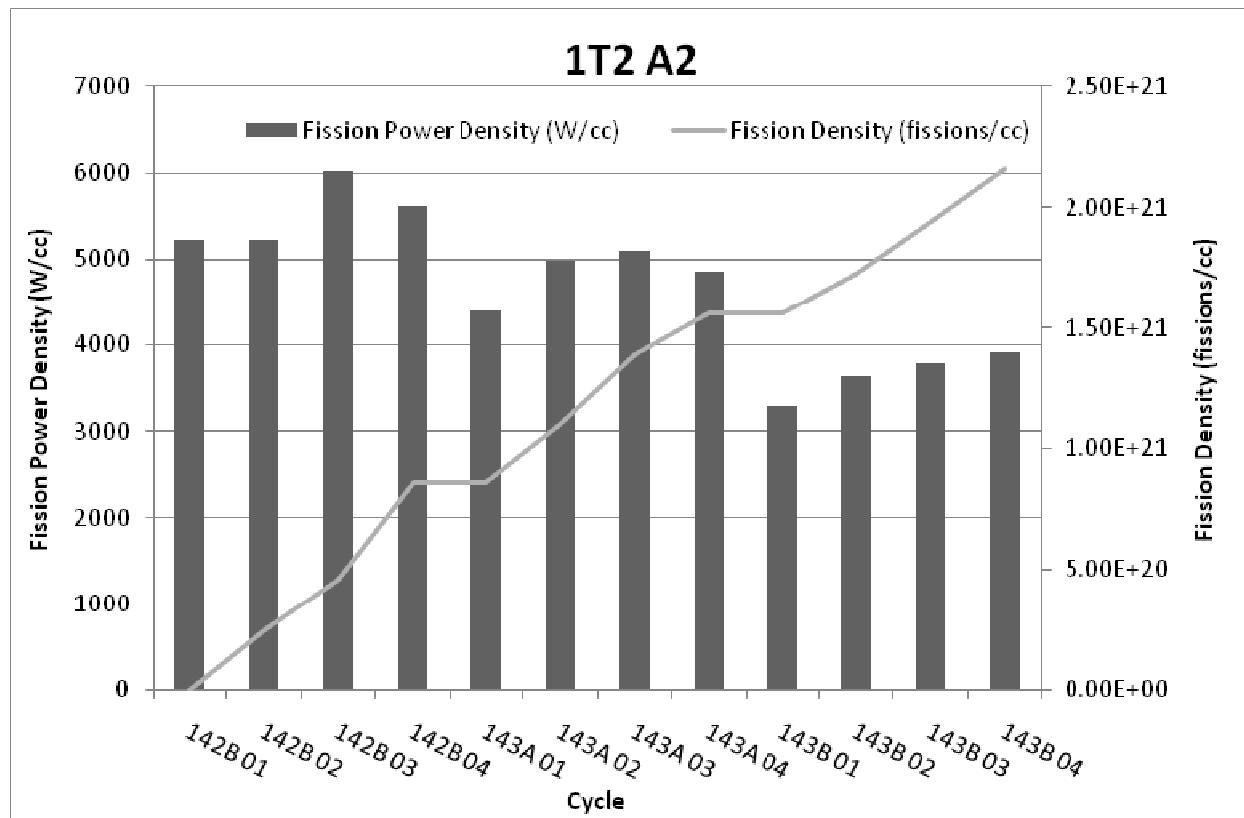
Individual Plate Power and Fission Density Plots

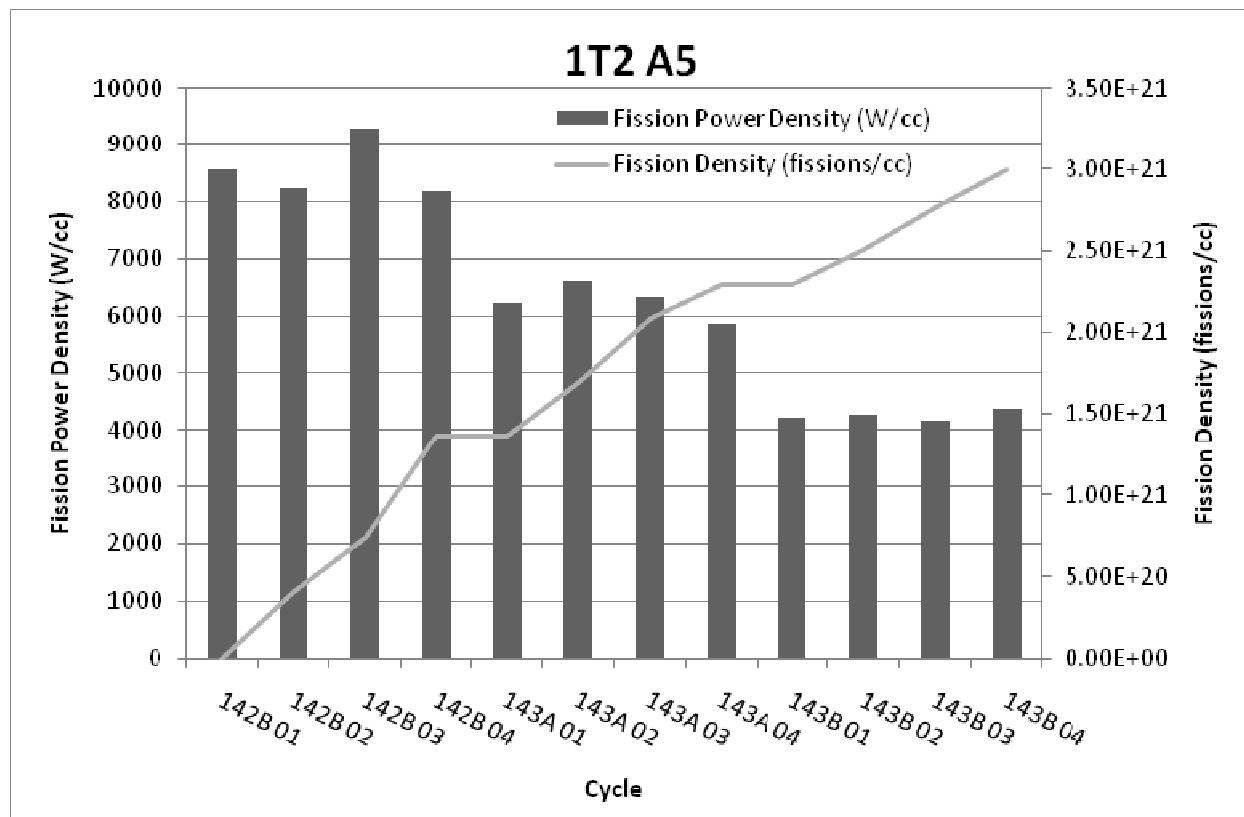
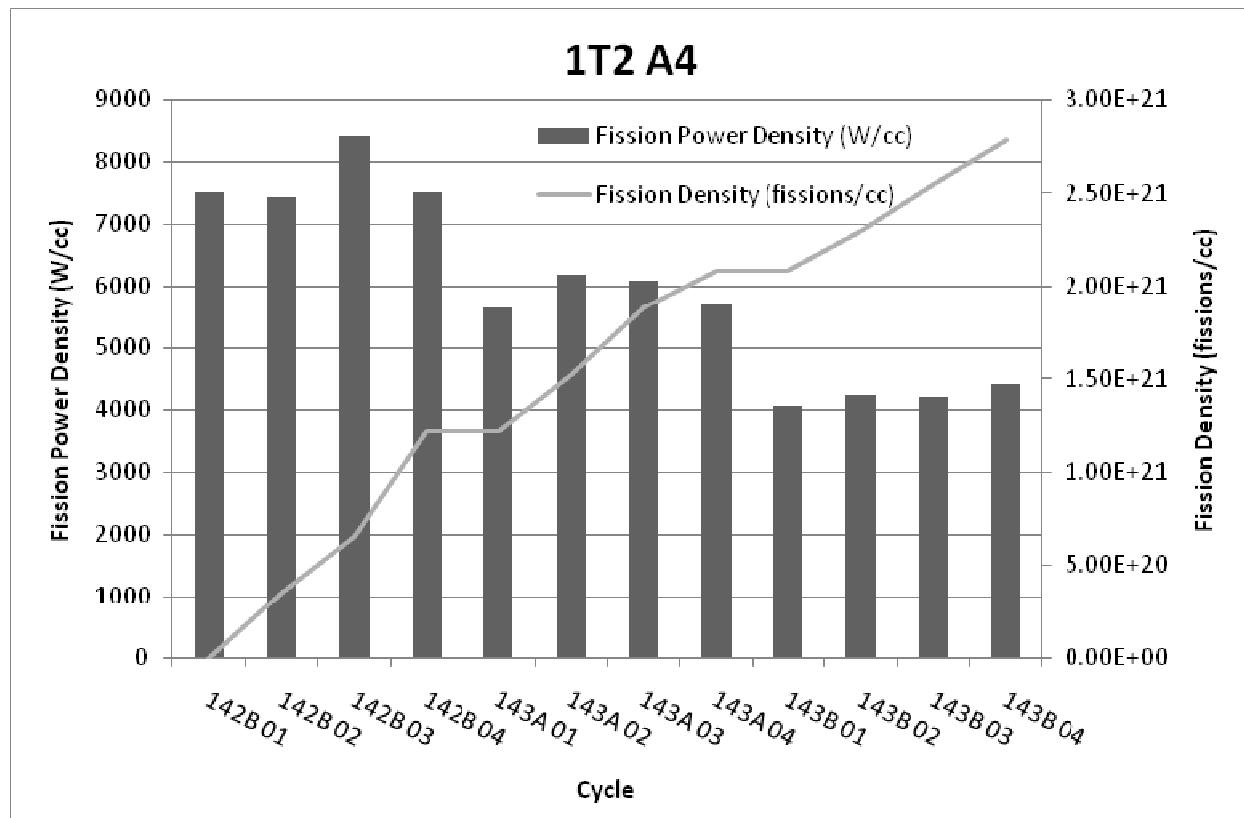
Appendix A

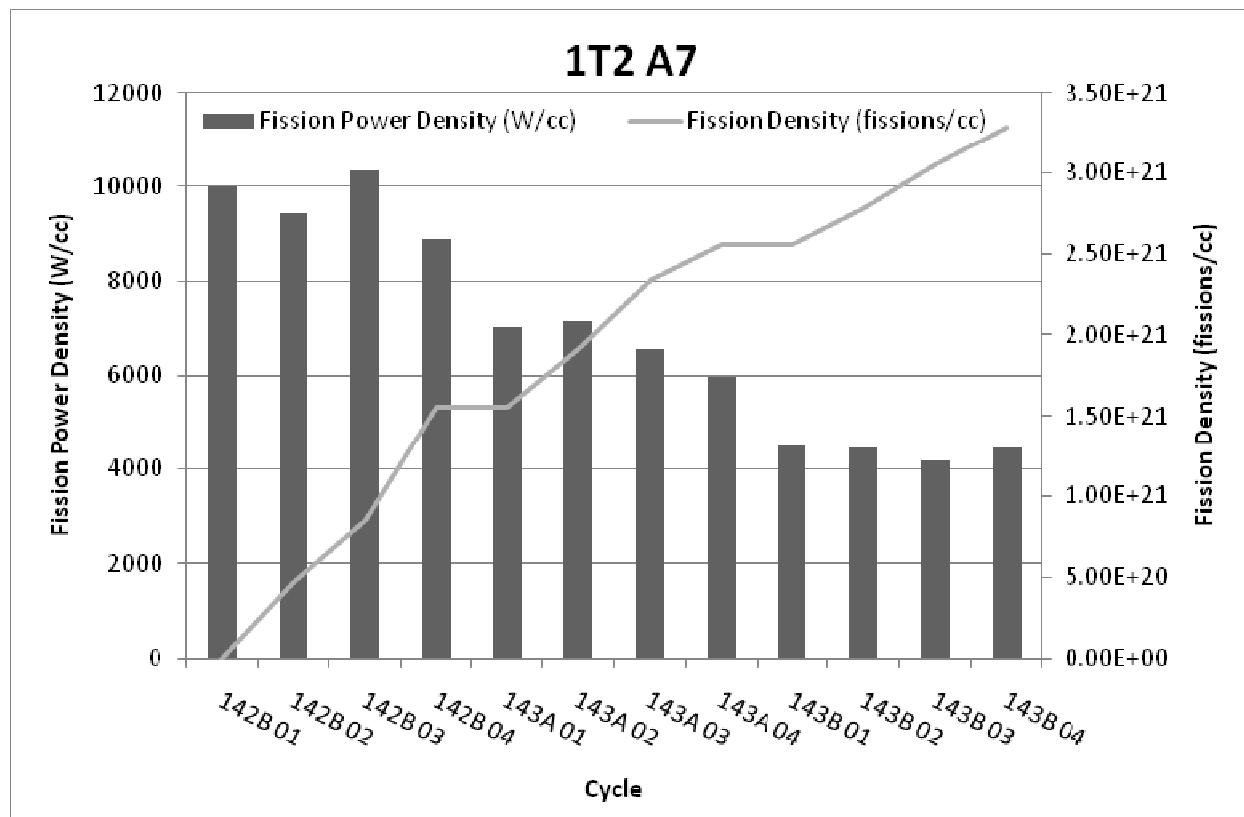
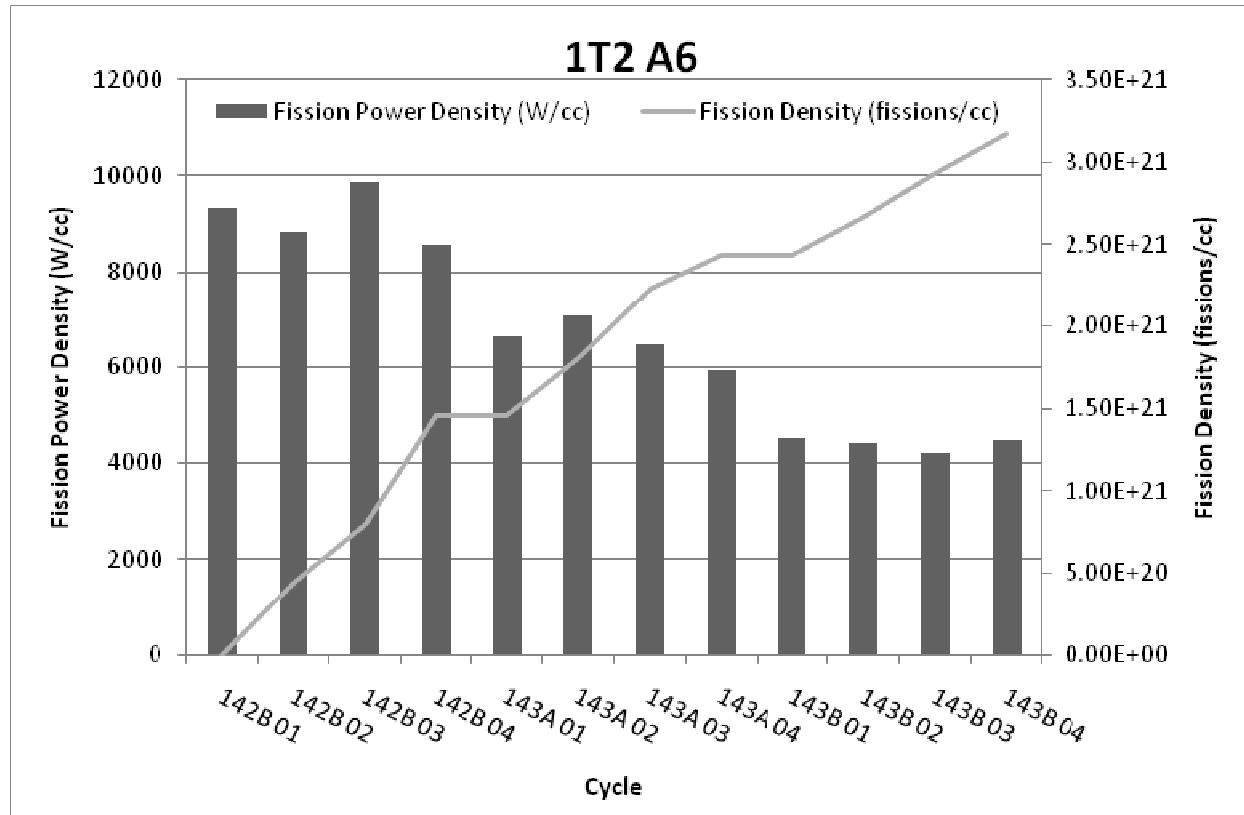
Power and Fission Density Plots

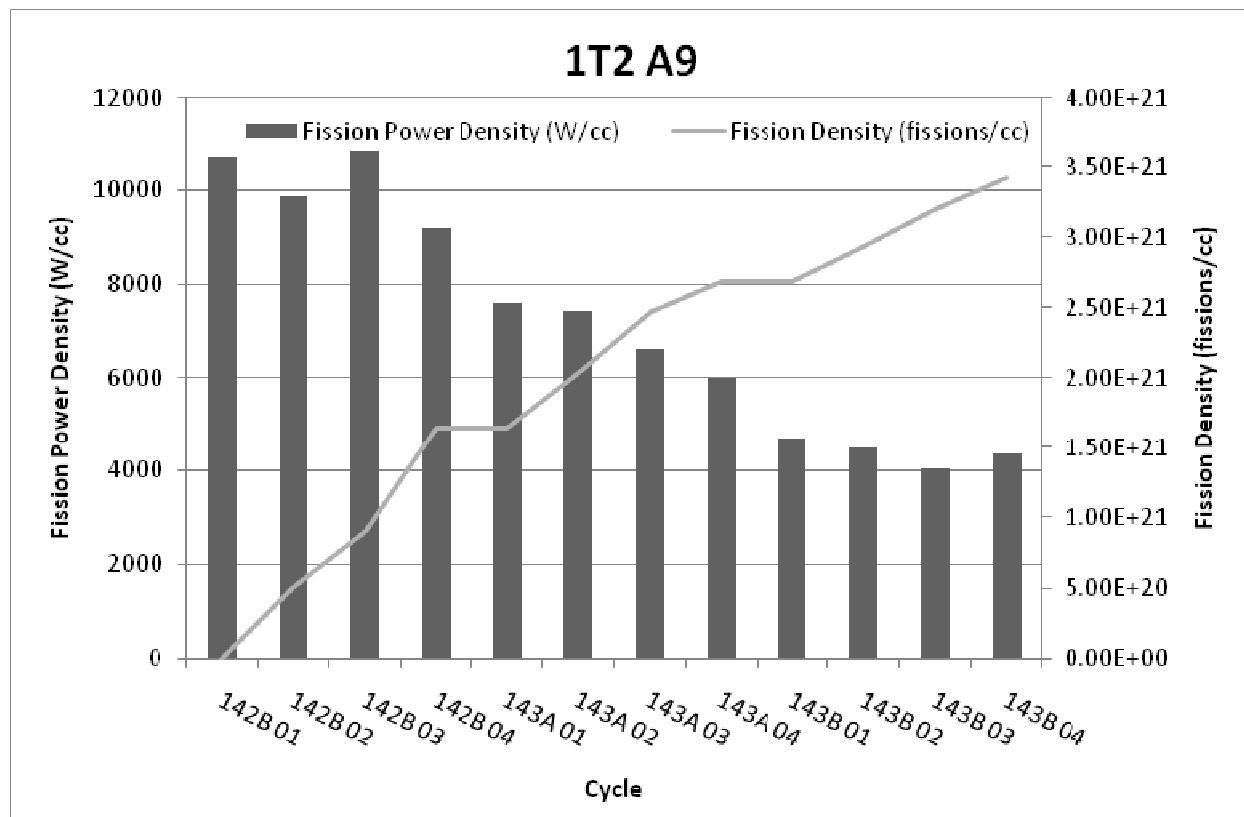
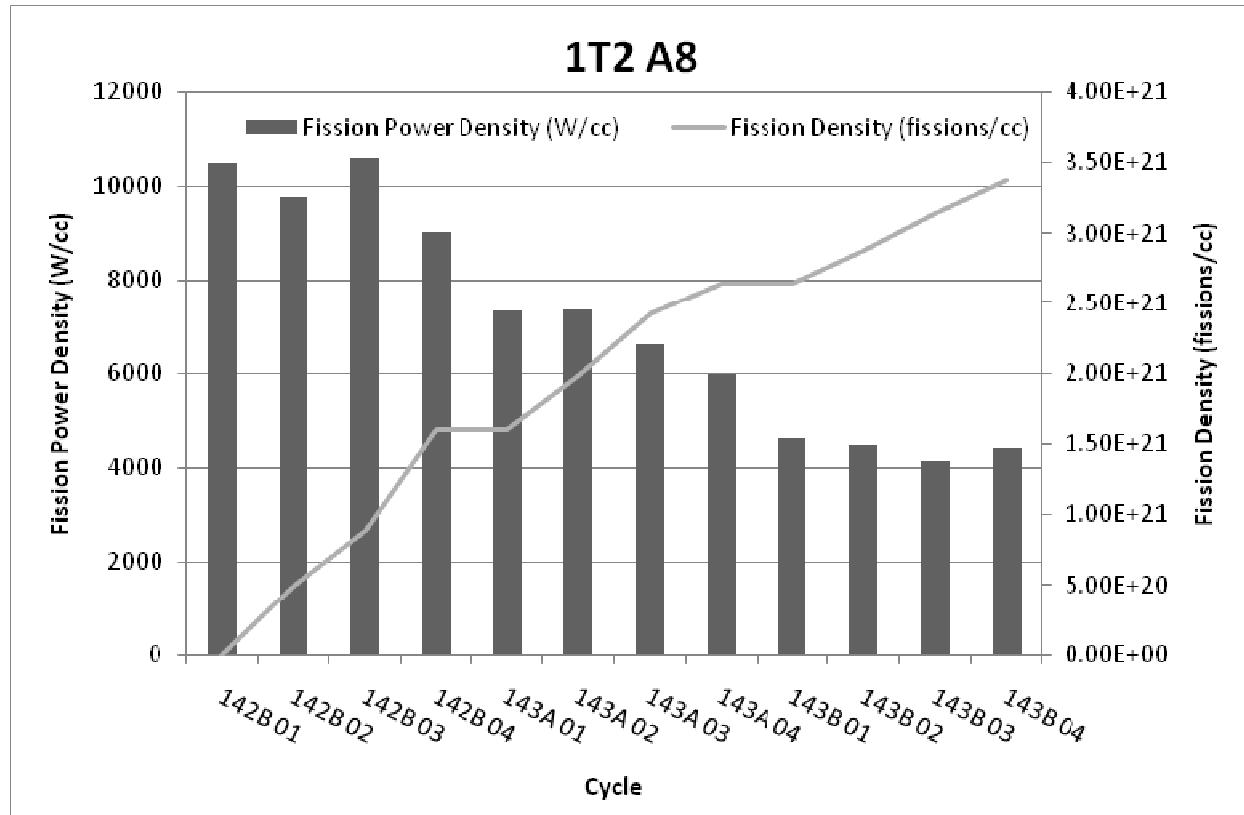
A-1. Plate 1T2

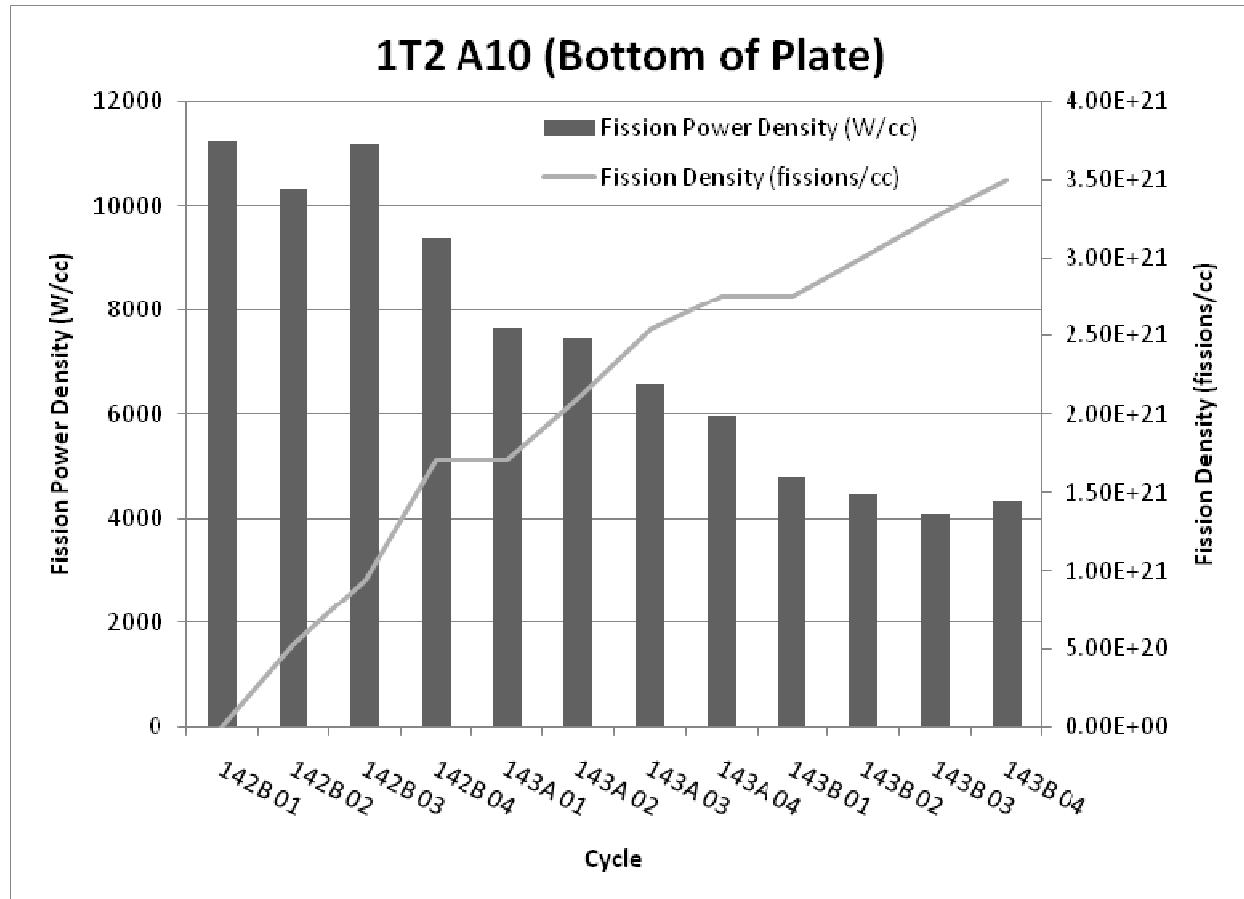




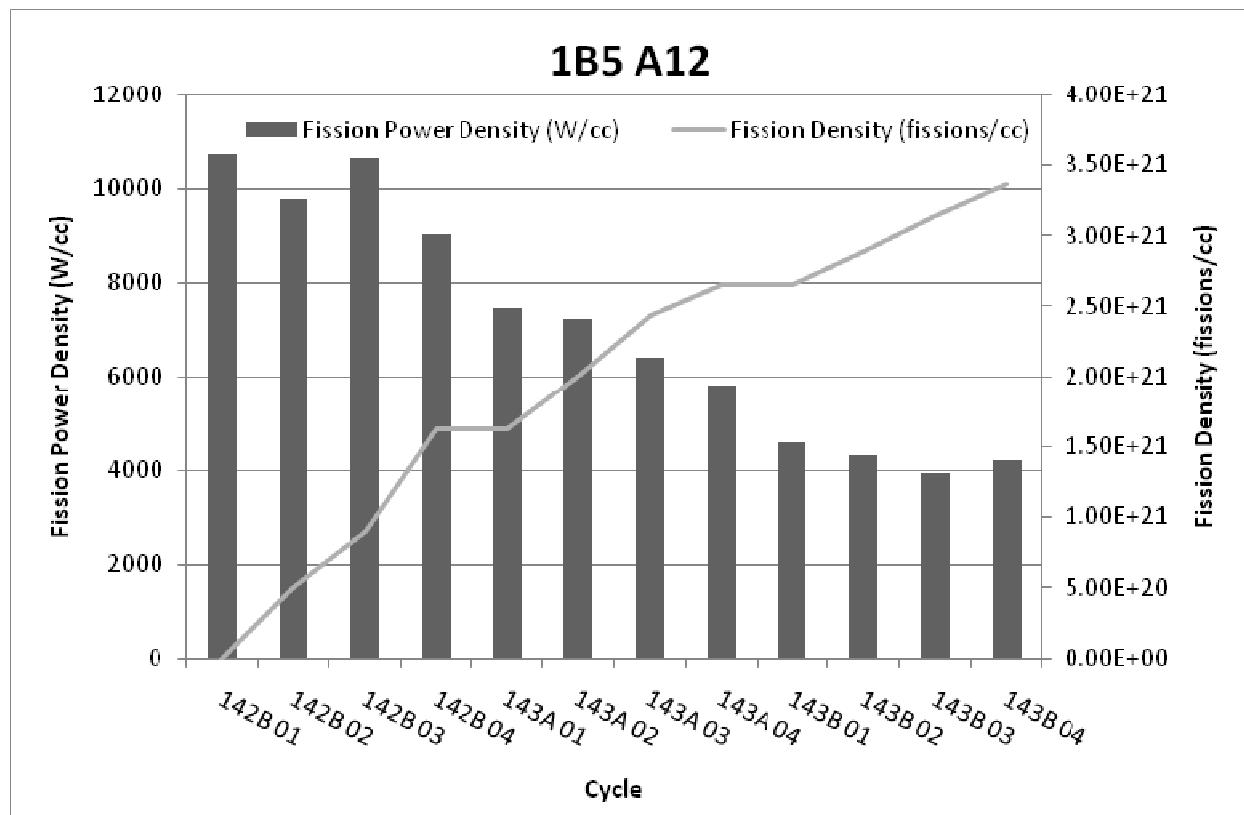
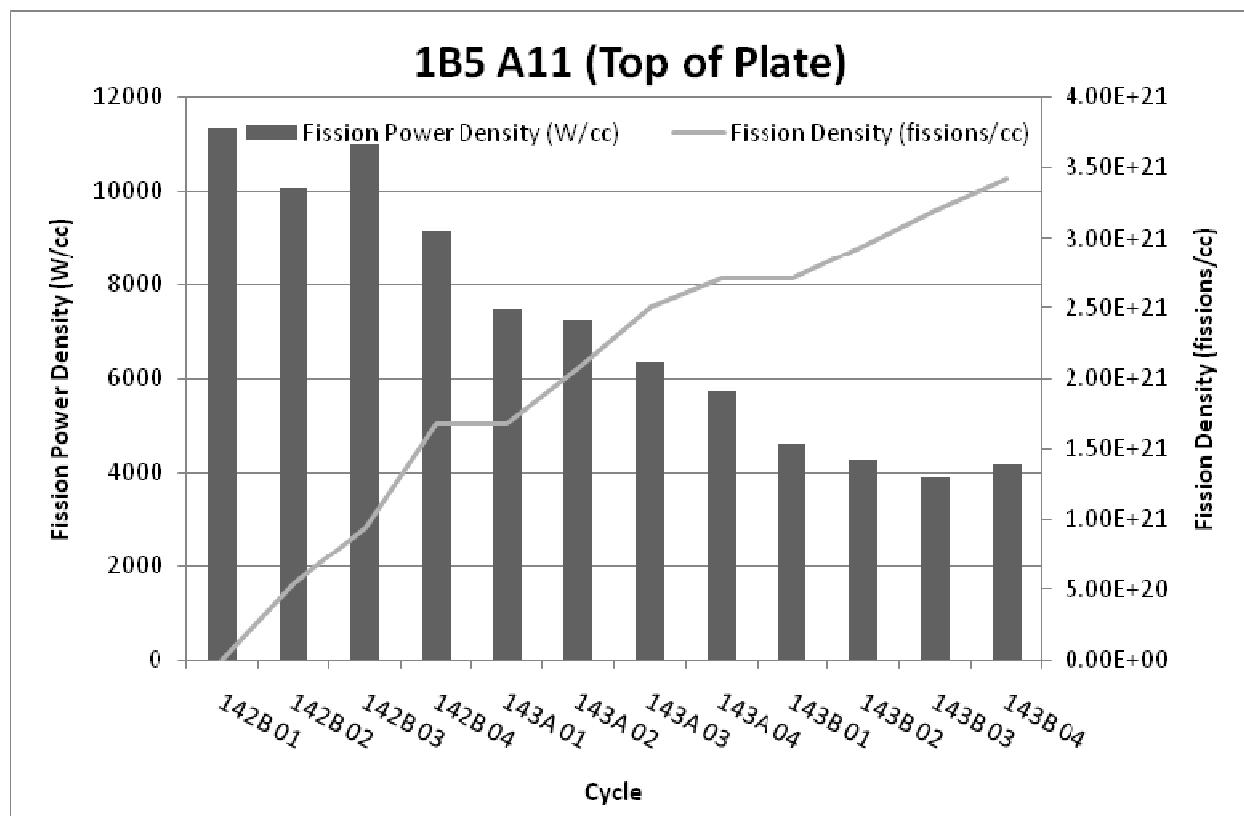


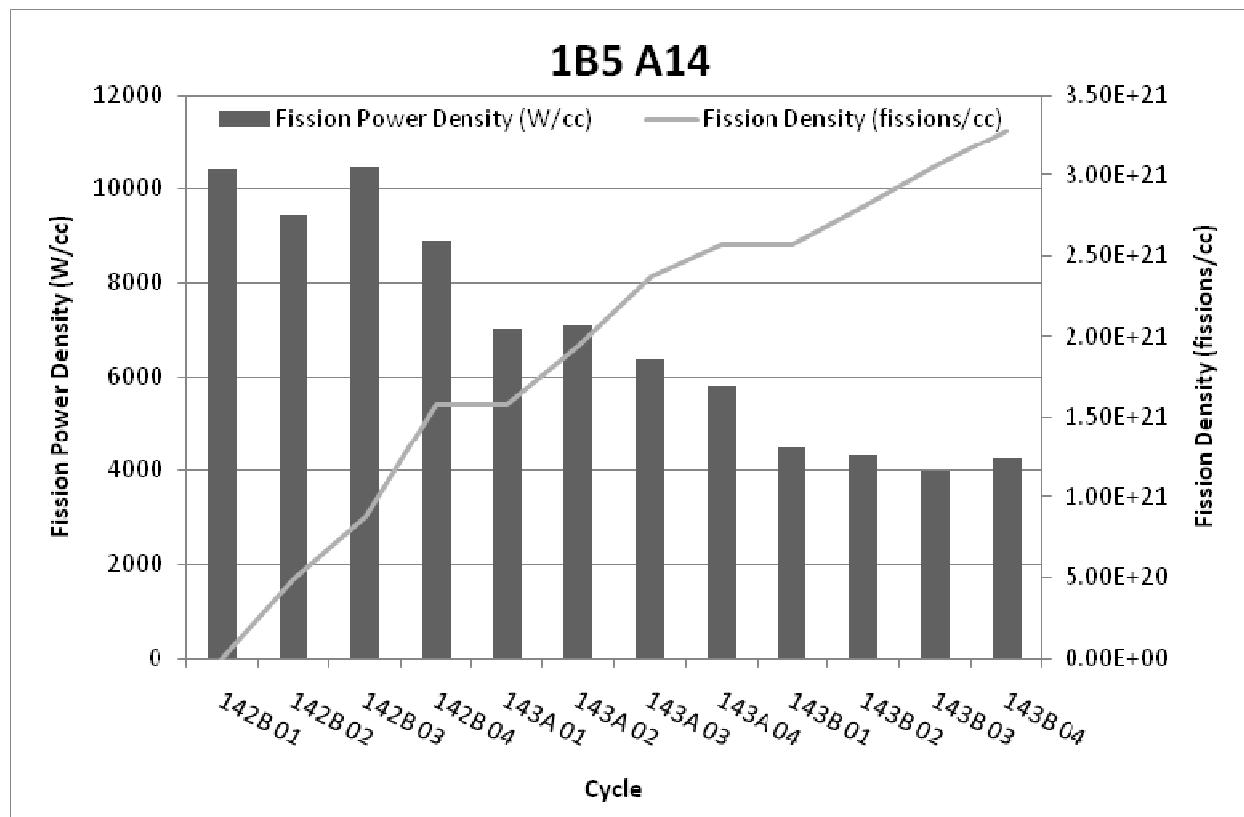
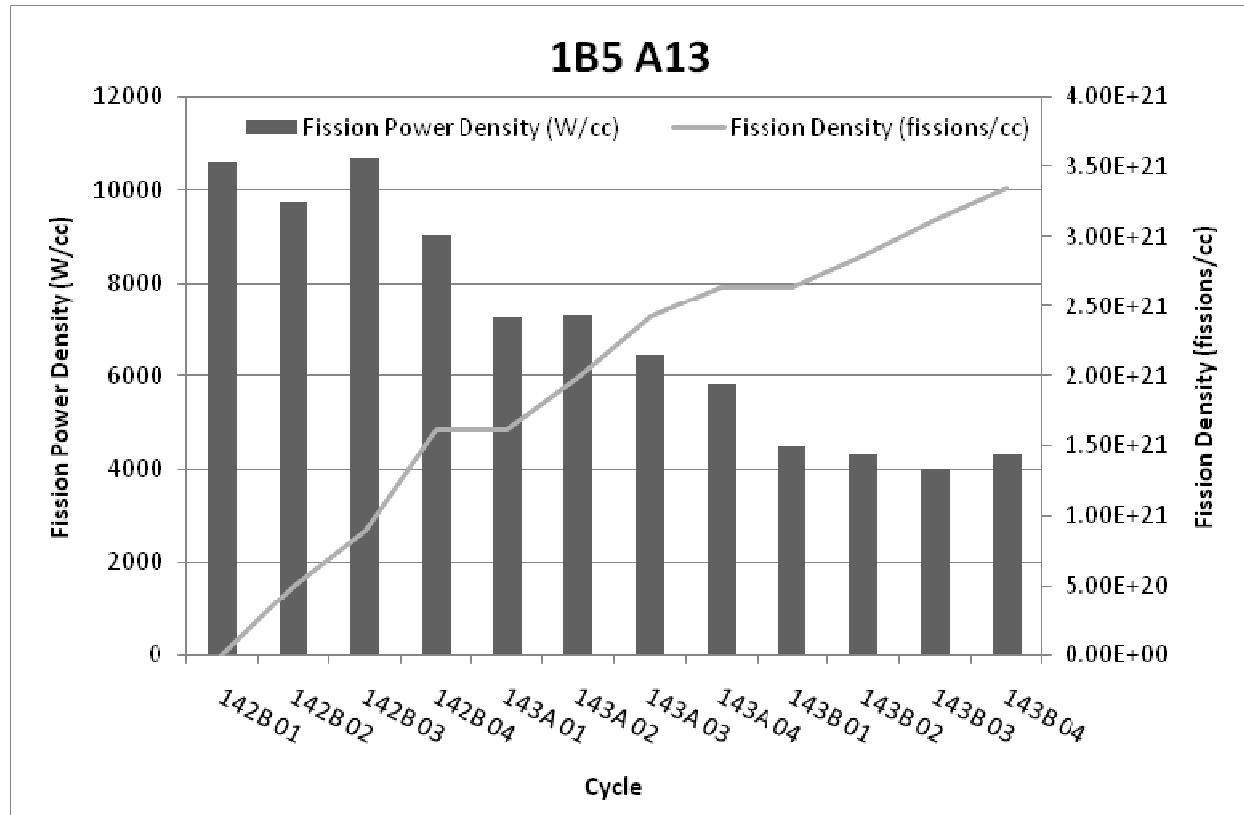


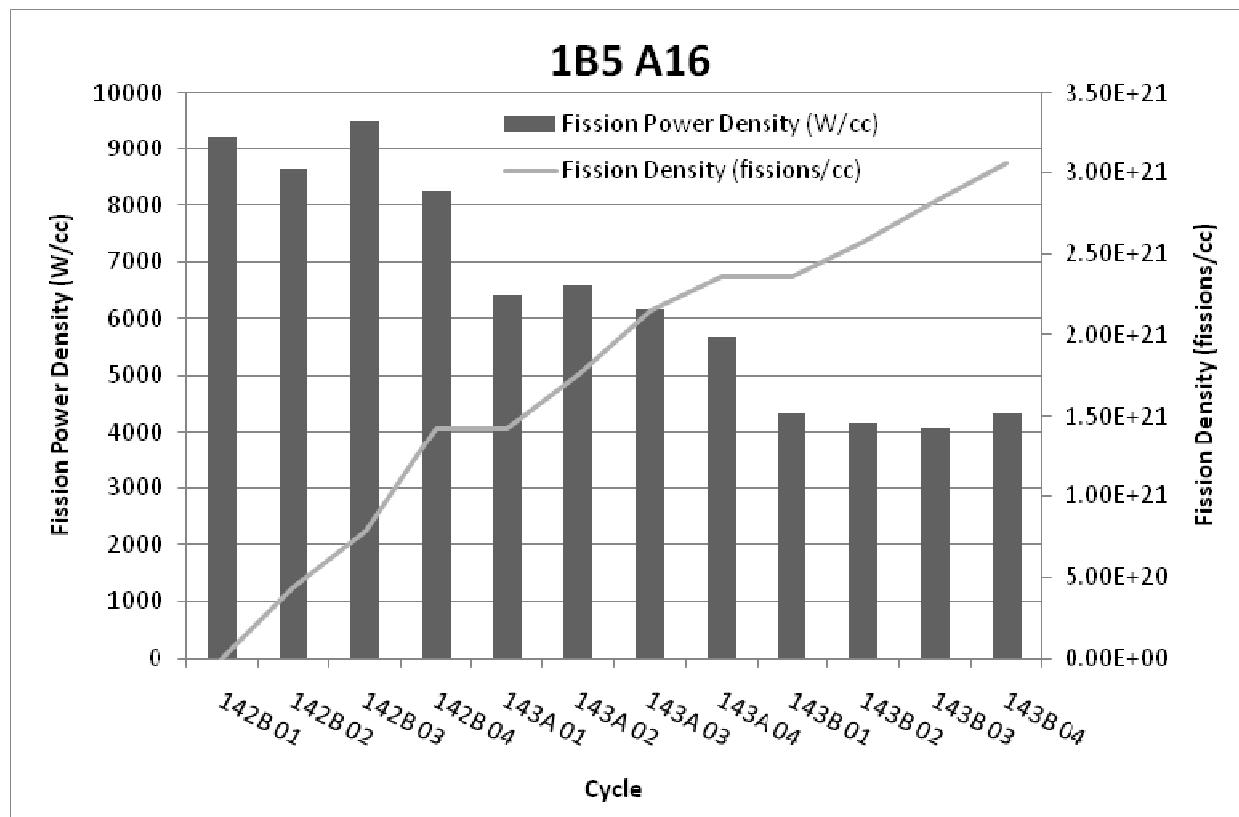
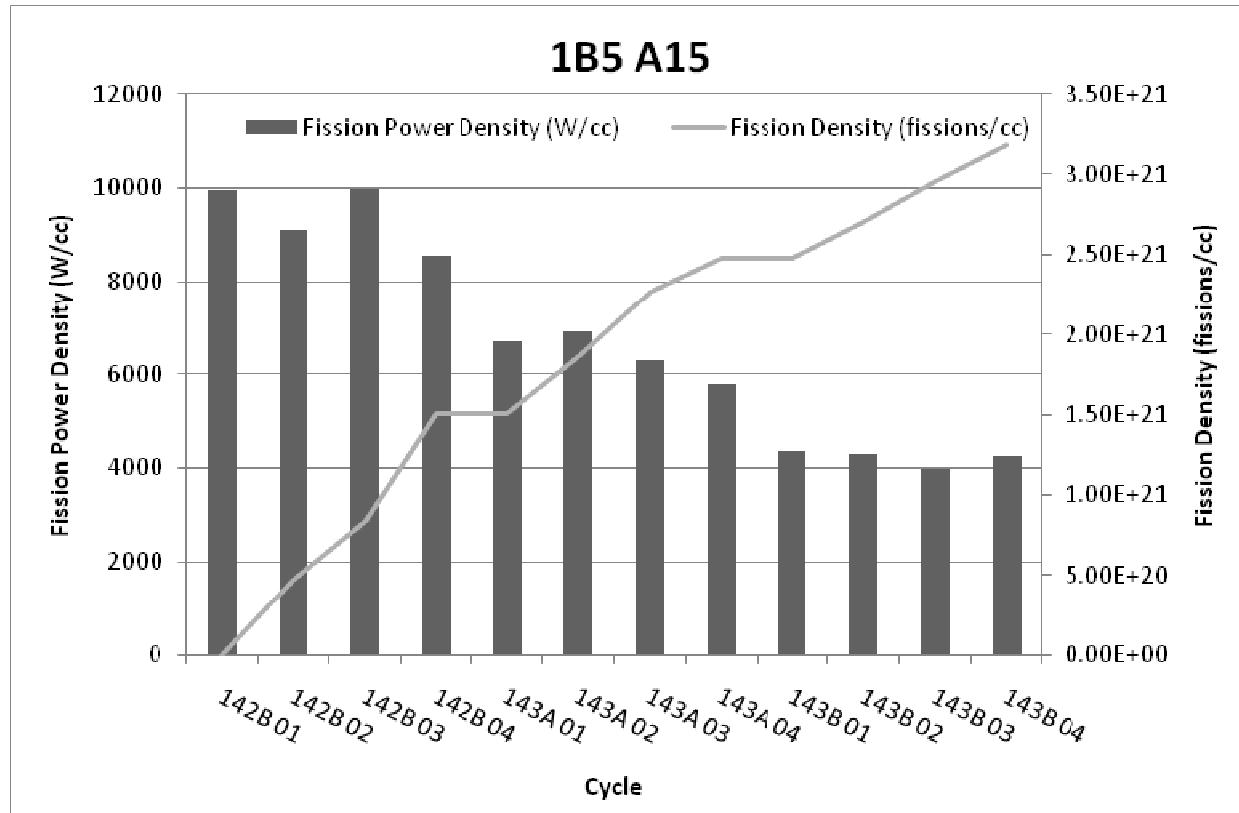


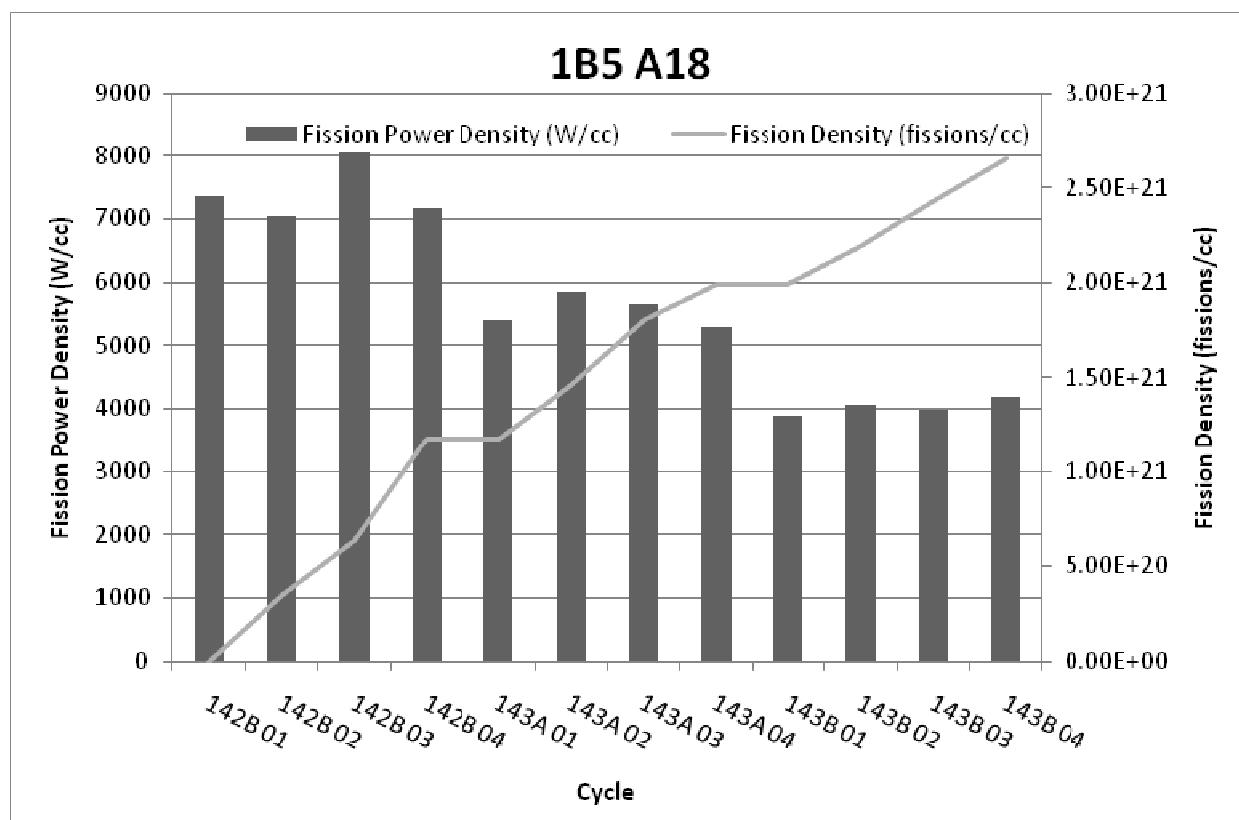
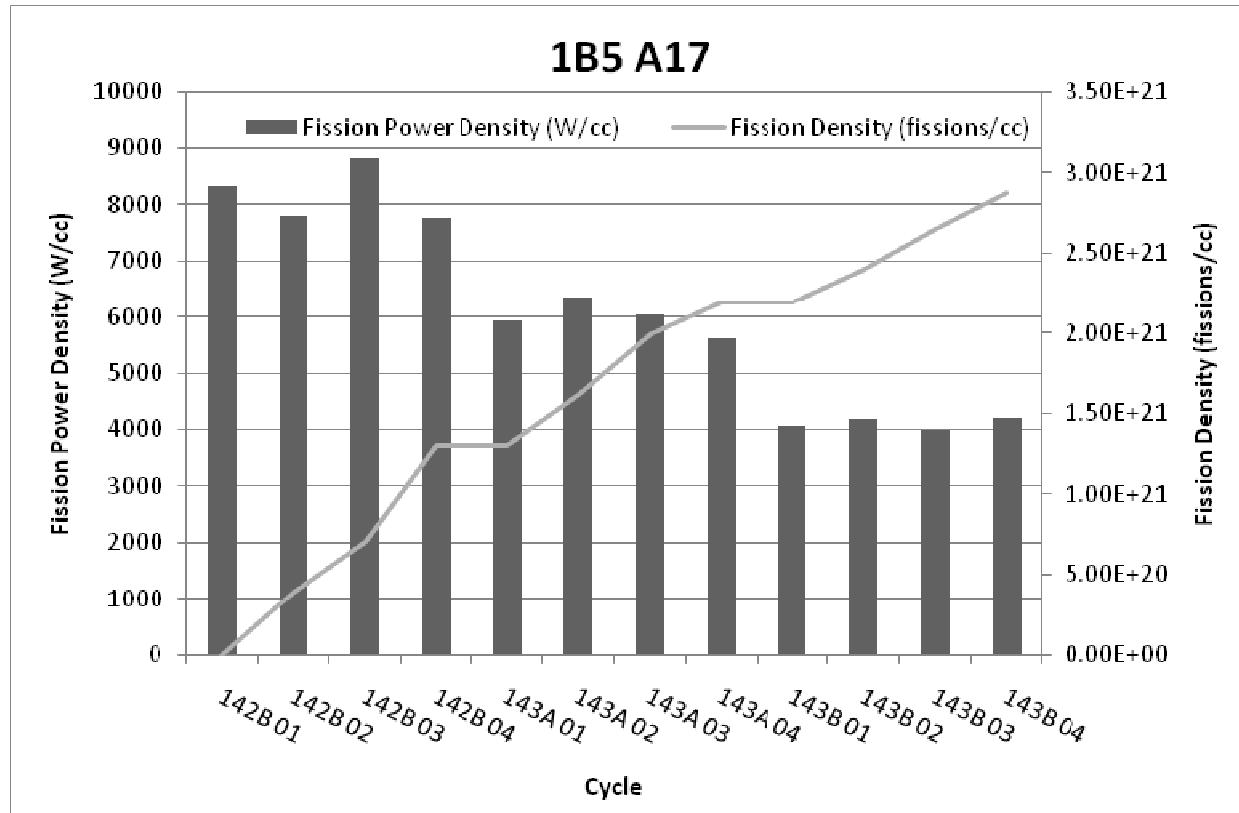


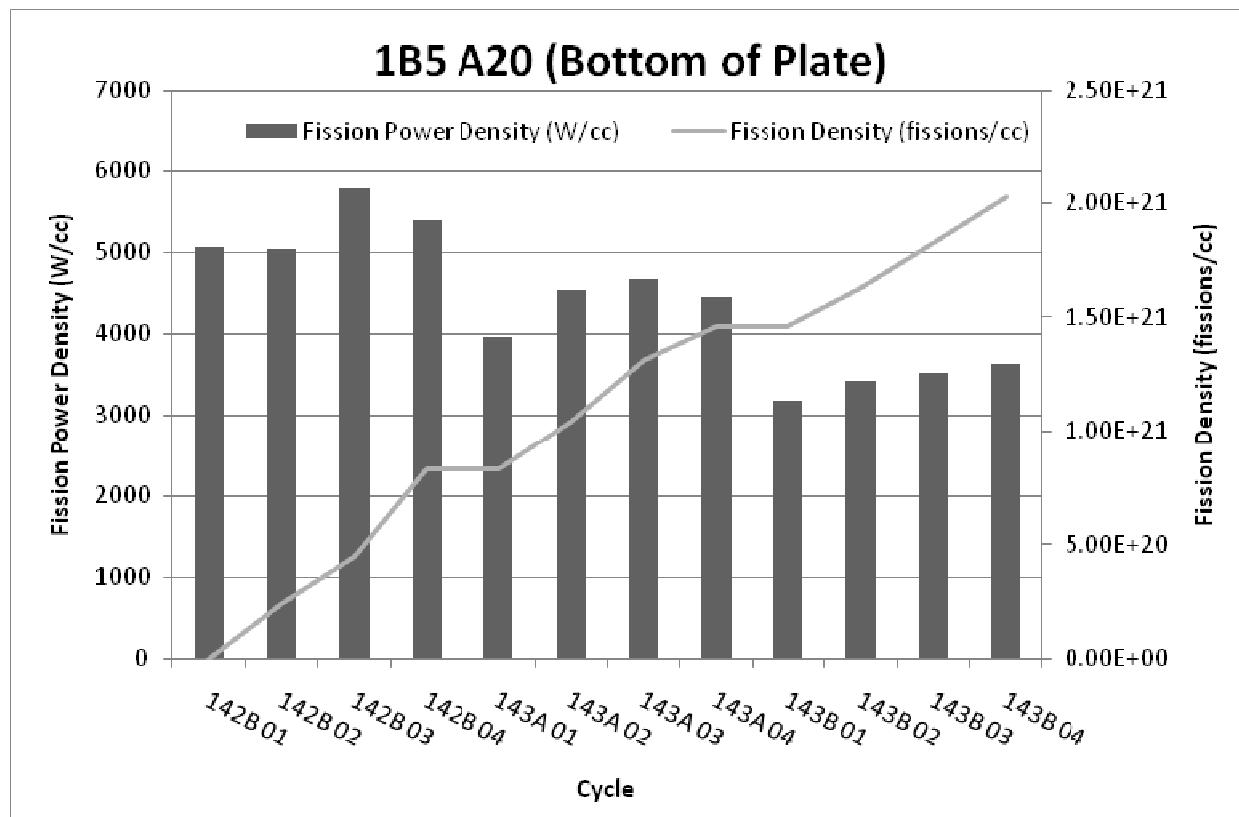
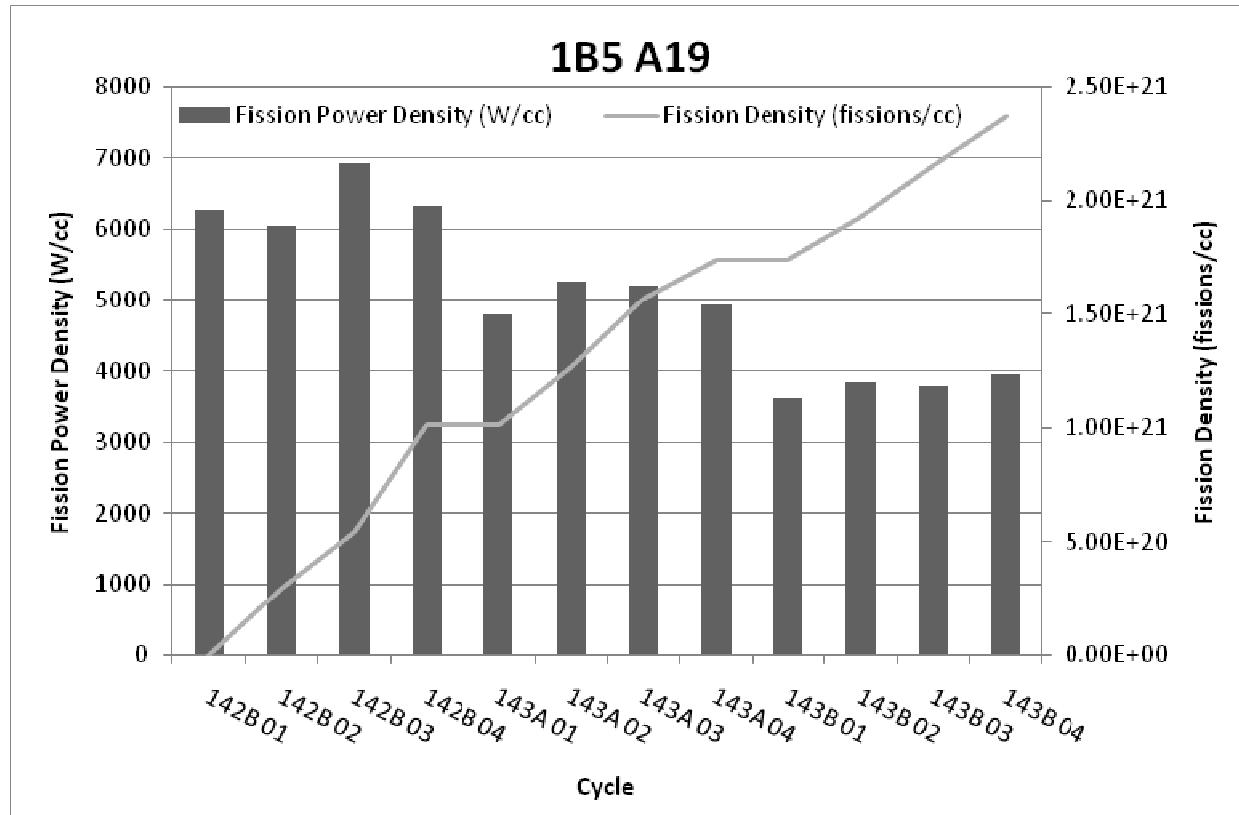
A-2. Plate 1B5











Appendix B

Plate Surface Temperatures

Appendix B

Table B - 1. Temperature (°C) map of the east side of plate 1T2 at BOC 142B (0 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.10	51.80	51.77	51.77	51.77	51.77	51.77	51.78	51.86	52.14
1.00	53.44	52.41	52.50	52.51	52.51	52.51	52.51	52.46	52.42	53.30
2.00	57.50	76.58	78.86	78.91	78.91	78.91	78.90	78.76	67.46	55.81
3.00	57.97	76.85	79.15	79.20	79.20	79.20	79.20	79.04	67.76	56.11
4.00	59.23	82.74	85.48	85.54	85.54	85.54	85.53	85.36	71.69	57.06
5.00	59.61	82.98	85.72	85.78	85.79	85.79	85.78	85.60	71.95	57.33
6.00	61.02	89.65	92.86	92.94	92.95	92.94	92.93	92.73	76.44	58.23
7.00	61.37	89.89	93.11	93.19	93.20	93.20	93.18	92.98	76.71	58.50
8.00	62.56	94.79	98.33	98.42	98.44	98.44	98.41	98.19	80.12	59.29
9.00	62.91	95.05	98.60	98.69	98.71	98.71	98.67	98.45	80.59	60.53
10.00	64.09	100.15	104.32	104.43	104.46	104.46	104.41	104.14	84.00	61.11
11.00	64.45	100.47	104.65	104.77	104.80	104.80	104.74	104.46	84.22	60.93
12.00	65.46	104.41	108.87	109.01	109.04	109.03	108.98	108.67	86.85	61.45
13.00	65.82	104.75	109.22	109.36	109.39	109.39	109.33	109.01	87.18	61.83
14.00	66.67	108.15	112.85	113.00	113.03	113.03	112.96	112.63	89.45	62.52
15.00	67.04	108.50	113.21	113.36	113.40	113.40	113.32	112.98	89.76	62.75
16.00	67.77	111.10	115.98	116.15	116.19	116.18	116.10	115.75	91.52	63.15
17.00	68.12	111.45	116.34	116.51	116.56	116.55	116.46	116.10	91.98	64.35
18.00	68.62	112.89	117.86	118.04	118.08	118.08	117.99	117.61	93.12	65.12
19.00	68.98	113.25	118.22	118.41	118.46	118.46	118.35	117.97	93.33	65.19
20.00	69.71	116.05	121.21	121.40	121.45	121.45	121.34	120.95	95.17	65.01
21.00	70.04	116.39	121.55	121.75	121.81	121.80	121.69	121.29	95.50	65.02
22.00	62.78	66.48	68.03	68.22	68.28	68.28	68.13	67.64	63.97	60.63
22.50	60.38	59.86	60.09	60.25	60.32	60.31	60.16	59.91	59.81	59.94

Table B - 2.Temperature (°C) map of the west side of plate 1T2 at BOC 142B (0 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.36	51.80	51.77	51.77	51.77	51.77	51.77	51.78	51.85	52.34
1.00	53.81	52.40	52.50	52.51	52.51	52.51	52.51	52.45	52.42	53.57
2.00	57.36	76.56	78.84	78.89	78.89	78.89	78.89	78.74	67.44	55.41
3.00	57.87	76.80	79.10	79.15	79.15	79.15	79.15	78.99	67.72	55.53
4.00	59.03	82.66	85.39	85.45	85.46	85.46	85.45	85.28	71.62	56.38
5.00	59.44	82.86	85.59	85.65	85.66	85.66	85.65	85.47	71.84	56.56
6.00	60.77	89.48	92.69	92.76	92.77	92.77	92.75	92.56	76.29	57.36
7.00	61.20	89.71	92.92	92.99	93.00	93.00	92.98	92.78	76.54	57.67
8.00	62.29	94.52	98.06	98.14	98.15	98.15	98.13	97.92	79.87	58.34
9.00	62.67	94.73	98.26	98.35	98.36	98.36	98.33	98.12	80.28	60.57
10.00	63.80	99.72	103.87	103.98	103.99	103.99	103.96	103.69	83.66	60.84
11.00	64.18	99.97	104.13	104.24	104.26	104.26	104.22	103.94	83.82	60.09
12.00	65.14	103.84	108.29	108.40	108.42	108.42	108.38	108.08	86.39	60.14
13.00	65.50	104.11	108.56	108.68	108.71	108.70	108.65	108.35	86.67	60.46
14.00	66.33	107.44	112.12	112.25	112.28	112.28	112.22	111.91	88.89	61.20
15.00	66.69	107.72	112.41	112.54	112.57	112.57	112.51	112.18	89.14	61.48
16.00	67.40	110.24	115.10	115.25	115.27	115.27	115.21	114.87	90.84	61.83
17.00	67.75	110.52	115.39	115.54	115.57	115.56	115.49	115.14	91.23	63.98
18.00	68.23	111.89	116.83	116.99	117.02	117.02	116.94	116.58	92.30	65.06
19.00	68.57	112.17	117.12	117.28	117.32	117.31	117.23	116.86	92.47	64.94
20.00	69.26	114.90	120.03	120.19	120.23	120.22	120.14	119.76	94.19	63.83
21.00	69.54	115.17	120.30	120.47	120.51	120.50	120.41	120.03	94.44	63.39
22.00	63.08	65.50	67.02	67.18	67.24	67.23	67.10	66.63	62.97	59.81
22.50	61.10	58.84	59.03	59.16	59.22	59.20	59.07	58.85	58.75	60.90

Table B - 3. Temperature (°C) map of the east side of plate 1B5 at BOC 142B (0 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	60.50	59.94	60.18	60.34	60.41	60.40	60.25	60.00	59.83	59.77
23.00	62.88	66.81	68.38	68.57	68.63	68.63	68.48	67.99	64.23	60.72
24.00	70.51	118.64	123.91	124.12	124.18	124.18	124.05	123.65	97.21	65.40
25.00	70.75	118.88	124.13	124.35	124.41	124.41	124.27	123.86	97.51	65.86
26.00	70.68	116.77	121.86	122.08	122.15	122.14	122.01	121.59	96.36	66.67
27.00	70.92	117.09	122.19	122.42	122.49	122.48	122.34	121.92	96.84	67.16
28.00	71.07	116.85	121.91	122.14	122.21	122.21	122.06	121.63	96.64	66.92
29.00	71.30	117.21	122.27	122.51	122.58	122.57	122.42	121.98	96.88	66.48
30.00	71.38	116.58	121.58	121.82	121.90	121.89	121.73	121.29	96.57	66.37
31.00	71.56	116.89	121.89	122.13	122.21	122.21	122.04	121.59	96.90	66.61
32.00	71.41	115.10	119.95	120.20	120.28	120.27	120.10	119.65	95.82	66.46
33.00	71.59	115.42	120.28	120.53	120.61	120.60	120.43	119.97	96.10	66.52
34.00	71.24	112.49	117.10	117.35	117.44	117.43	117.25	116.79	94.28	66.60
35.00	71.38	112.76	117.37	117.63	117.72	117.71	117.53	117.07	94.67	67.36
36.00	70.83	108.81	113.10	113.36	113.45	113.44	113.25	112.79	92.30	67.45
37.00	70.93	109.06	113.35	113.61	113.70	113.70	113.50	113.04	92.40	67.15
38.00	70.28	104.71	108.63	108.90	108.99	108.98	108.78	108.32	89.55	66.11
39.00	70.34	104.93	108.85	109.12	109.21	109.20	109.00	108.54	89.75	65.94
40.00	69.59	99.99	103.49	103.76	103.86	103.85	103.64	103.18	86.65	65.58
41.00	69.59	100.17	103.67	103.94	104.04	104.03	103.82	103.37	86.83	65.67
42.00	68.63	94.33	97.33	97.60	97.70	97.69	97.47	97.02	83.15	64.86
43.00	68.58	94.46	97.46	97.73	97.83	97.82	97.60	97.16	83.28	65.04
44.00	64.46	67.35	67.97	68.23	68.35	68.33	68.08	67.66	66.58	62.86
45.00	63.71	66.81	67.28	67.52	67.63	67.62	67.37	67.02	66.25	62.53

Table B - 4. Temperature (°C) map of the west side of plate 1B5 at BOC 142B (0 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	61.02	58.91	59.12	59.25	59.31	59.29	59.16	58.93	58.78	60.21
23.00	63.25	65.80	67.33	67.50	67.55	67.54	67.41	66.95	63.20	59.94
24.00	70.22	117.29	122.52	122.70	122.74	122.74	122.63	122.25	95.96	63.86
25.00	70.46	117.48	122.69	122.87	122.92	122.91	122.80	122.41	96.22	64.73
26.00	70.38	115.30	120.36	120.55	120.59	120.59	120.47	120.07	95.02	66.49
27.00	70.58	115.58	120.64	120.83	120.88	120.87	120.75	120.34	95.43	67.16
28.00	70.70	115.28	120.30	120.49	120.55	120.54	120.41	120.00	95.20	66.53
29.00	70.91	115.57	120.59	120.79	120.85	120.84	120.71	120.28	95.38	65.30
30.00	70.94	114.89	119.85	120.05	120.10	120.09	119.96	119.53	95.01	64.83
31.00	71.09	115.14	120.10	120.30	120.36	120.35	120.21	119.78	95.29	64.99
32.00	70.90	113.28	118.09	118.30	118.36	118.34	118.20	117.76	94.15	64.67
33.00	71.03	113.52	118.33	118.54	118.60	118.59	118.44	118.00	94.37	64.75
34.00	70.66	110.54	115.10	115.31	115.38	115.37	115.21	114.76	92.50	65.34
35.00	70.74	110.76	115.32	115.54	115.60	115.59	115.43	114.98	92.83	66.84
36.00	70.17	106.72	110.96	111.18	111.25	111.23	111.06	110.62	90.43	67.35
37.00	70.21	106.92	111.16	111.38	111.45	111.43	111.26	110.81	90.48	66.65
38.00	69.55	102.48	106.35	106.57	106.64	106.62	106.45	106.00	87.63	64.86
39.00	69.55	102.64	106.51	106.74	106.81	106.79	106.61	106.17	87.77	64.31
40.00	68.80	97.62	101.07	101.29	101.36	101.35	101.16	100.72	84.67	63.94
41.00	68.73	97.75	101.20	101.42	101.49	101.48	101.29	100.85	84.80	64.15
42.00	67.78	91.81	94.75	94.97	95.04	95.02	94.83	94.40	81.06	63.30
43.00	67.66	91.90	94.84	95.06	95.13	95.11	94.92	94.50	81.15	63.81
44.00	63.95	65.44	66.01	66.24	66.33	66.31	66.08	65.68	64.64	62.52
45.00	63.24	64.90	65.31	65.52	65.61	65.58	65.36	65.03	64.29	62.37

Table B - 5. Temperature (°C) map of the east side of plate 1T2 at MOC 142B (16 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.10	51.80	51.77	51.77	51.77	51.77	51.77	51.78	51.86	52.14
1.00	53.44	52.41	52.50	52.52	52.52	52.52	52.51	52.46	52.43	53.31
2.00	57.53	76.63	78.91	78.96	78.96	78.96	78.96	78.82	67.49	55.83
3.00	58.00	76.91	79.20	79.26	79.26	79.26	79.25	79.10	67.80	56.13
4.00	59.23	82.82	85.56	85.63	85.63	85.63	85.62	85.45	71.74	57.06
5.00	59.61	83.06	85.80	85.87	85.88	85.88	85.86	85.68	72.00	57.33
6.00	60.97	89.32	92.51	92.58	92.59	92.59	92.57	92.38	76.22	58.20
7.00	61.37	89.60	92.79	92.87	92.89	92.89	92.86	92.66	76.53	58.49
8.00	62.49	94.41	97.93	98.02	98.03	98.03	98.00	97.79	79.86	59.24
9.00	62.83	94.67	98.19	98.28	98.30	98.30	98.26	98.04	80.33	60.47
10.00	63.80	98.56	102.60	102.71	102.74	102.73	102.69	102.42	82.98	60.92
11.00	64.15	98.87	102.92	103.04	103.06	103.06	103.01	102.73	83.18	60.74
12.00	65.01	102.06	106.33	106.46	106.49	106.49	106.43	106.13	85.32	61.16
13.00	65.35	102.38	106.66	106.80	106.83	106.83	106.77	106.46	85.65	61.53
14.00	66.11	105.40	109.90	110.04	110.08	110.08	110.01	109.69	87.68	62.15
15.00	66.46	105.74	110.24	110.39	110.43	110.43	110.35	110.02	87.97	62.36
16.00	67.11	107.82	112.46	112.62	112.66	112.66	112.58	112.23	89.40	62.72
17.00	67.44	108.16	112.80	112.97	113.01	113.01	112.92	112.57	89.83	63.89
18.00	67.79	108.91	113.59	113.76	113.81	113.81	113.71	113.35	90.53	64.54
19.00	68.11	109.24	113.92	114.10	114.15	114.15	114.05	113.68	90.73	64.58
20.00	68.75	111.65	116.48	116.67	116.72	116.72	116.61	116.23	92.25	64.37
21.00	69.06	111.96	116.80	117.00	117.05	117.05	116.94	116.55	92.54	64.37
22.00	62.37	65.64	67.08	67.25	67.32	67.31	67.17	66.71	63.33	60.33
22.50	60.16	59.52	59.72	59.87	59.93	59.93	59.78	59.56	59.49	59.75

Table B - 6. Temperature (°C) map of the west side of plate 1T2 at MOC 142B (16 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.36	51.80	51.77	51.77	51.77	51.77	51.77	51.78	51.85	52.34
1.00	53.82	52.41	52.50	52.51	52.51	52.51	52.51	52.46	52.42	53.57
2.00	57.38	76.61	78.90	78.94	78.95	78.95	78.94	78.80	67.48	55.42
3.00	57.88	76.86	79.15	79.20	79.21	79.21	79.20	79.05	67.75	55.54
4.00	59.04	82.74	85.48	85.54	85.54	85.54	85.53	85.36	71.67	56.39
5.00	59.44	82.93	85.68	85.74	85.74	85.74	85.73	85.55	71.89	56.56
6.00	60.72	89.15	92.34	92.40	92.41	92.41	92.40	92.21	76.07	57.33
7.00	61.15	89.38	92.56	92.64	92.65	92.64	92.63	92.43	76.32	57.64
8.00	62.23	94.14	97.65	97.73	97.74	97.74	97.72	97.51	79.61	58.30
9.00	62.60	94.34	97.85	97.94	97.95	97.95	97.92	97.71	80.02	60.52
10.00	63.54	98.19	102.15	102.25	102.27	102.27	102.23	101.97	82.63	60.67
11.00	63.90	98.41	102.40	102.51	102.53	102.52	102.49	102.21	82.78	59.93
12.00	64.73	101.48	105.75	105.86	105.88	105.88	105.83	105.55	84.87	59.91
13.00	65.09	101.74	106.01	106.13	106.15	106.14	106.10	105.80	85.14	60.21
14.00	65.83	104.70	109.18	109.31	109.33	109.33	109.28	108.97	87.12	60.91
15.00	66.18	104.97	109.45	109.58	109.61	109.61	109.55	109.23	87.36	61.17
16.00	66.81	106.98	111.60	111.73	111.76	111.76	111.70	111.37	88.73	61.47
17.00	67.14	107.25	111.87	112.01	112.04	112.04	111.97	111.63	89.10	63.57
18.00	67.49	107.93	112.59	112.73	112.77	112.76	112.69	112.34	89.74	64.54
19.00	67.81	108.20	112.85	113.00	113.04	113.03	112.95	112.60	89.88	64.41
20.00	68.41	110.53	115.34	115.50	115.53	115.53	115.44	115.08	91.35	63.30
21.00	68.67	110.78	115.59	115.75	115.79	115.79	115.70	115.33	91.58	62.86
22.00	62.72	64.71	66.11	66.27	66.32	66.31	66.19	65.75	62.38	59.57
22.50	60.89	58.55	58.71	58.84	58.89	58.88	58.76	58.55	58.49	60.71

Table B - 7. Temperature (°C) map of the east side of plate 1B5 at MOC 142B (16 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	60.26	59.59	59.80	59.95	60.02	60.01	59.87	59.63	59.51	59.58
23.00	62.40	65.76	67.18	67.36	67.42	67.41	67.27	66.82	63.45	60.38
24.00	69.26	112.61	117.43	117.63	117.69	117.69	117.57	117.18	93.10	64.59
25.00	69.52	112.90	117.73	117.94	118.00	117.99	117.87	117.47	93.44	65.05
26.00	69.60	111.92	116.66	116.87	116.93	116.93	116.79	116.39	93.02	65.91
27.00	69.82	112.22	116.97	117.19	117.25	117.25	117.11	116.70	93.47	66.38
28.00	70.03	112.42	117.16	117.38	117.45	117.45	117.30	116.89	93.56	66.19
29.00	70.24	112.75	117.49	117.72	117.79	117.78	117.64	117.22	93.77	65.76
30.00	70.22	111.55	116.18	116.41	116.48	116.48	116.33	115.90	93.08	65.59
31.00	70.39	111.83	116.47	116.70	116.78	116.77	116.61	116.19	93.38	65.82
32.00	70.33	110.71	115.24	115.48	115.55	115.55	115.39	114.96	92.74	65.72
33.00	70.49	111.01	115.55	115.79	115.87	115.86	115.70	115.26	93.00	65.78
34.00	70.31	109.10	113.48	113.72	113.80	113.79	113.62	113.18	91.86	65.95
35.00	70.43	109.36	113.74	113.98	114.07	114.06	113.88	113.45	92.22	66.68
36.00	69.92	105.70	109.77	110.02	110.10	110.09	109.91	109.47	90.05	66.77
37.00	70.01	105.94	110.01	110.26	110.34	110.34	110.15	109.71	90.14	66.47
38.00	69.53	102.47	106.25	106.50	106.59	106.58	106.39	105.95	87.88	65.57
39.00	69.58	102.69	106.46	106.72	106.81	106.80	106.60	106.17	88.07	65.40
40.00	68.88	98.12	101.50	101.76	101.85	101.84	101.64	101.21	85.25	65.06
41.00	68.87	98.29	101.68	101.93	102.03	102.02	101.82	101.39	85.41	65.15
42.00	68.09	93.44	96.41	96.66	96.76	96.75	96.54	96.12	82.37	64.46
43.00	68.05	93.58	96.55	96.80	96.89	96.88	96.68	96.26	82.50	64.64
44.00	63.93	66.51	67.10	67.35	67.45	67.43	67.20	66.81	65.79	62.44
45.00	63.17	65.98	66.40	66.63	66.73	66.72	66.49	66.16	65.46	62.09

Table B - 8. Temperature (°C) map of the west side of plate 1B5 at MOC 142B (16 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	60.82	58.62	58.79	58.92	58.97	58.96	58.83	58.62	58.51	60.04
23.00	62.82	64.81	66.19	66.34	66.40	66.39	66.26	65.83	62.47	59.66
24.00	69.08	111.30	116.10	116.26	116.31	116.30	116.20	115.84	92.04	63.20
25.00	69.33	111.56	116.35	116.52	116.57	116.56	116.45	116.08	92.31	64.06
26.00	69.39	110.52	115.22	115.40	115.45	115.44	115.33	114.94	91.85	65.80
27.00	69.58	110.78	115.49	115.67	115.72	115.71	115.60	115.21	92.22	66.45
28.00	69.76	110.93	115.63	115.82	115.87	115.86	115.74	115.34	92.27	65.88
29.00	69.94	111.20	115.91	116.10	116.15	116.14	116.01	115.61	92.41	64.69
30.00	69.88	109.94	114.54	114.73	114.78	114.77	114.64	114.24	91.68	64.19
31.00	70.01	110.18	114.78	114.97	115.02	115.01	114.88	114.47	91.92	64.34
32.00	69.92	109.00	113.49	113.69	113.74	113.73	113.60	113.18	91.24	64.07
33.00	70.04	109.25	113.74	113.94	114.00	113.99	113.85	113.43	91.43	64.24
34.00	69.82	107.27	111.60	111.80	111.86	111.85	111.70	111.28	90.26	64.80
35.00	69.89	107.49	111.82	112.02	112.08	112.07	111.92	111.49	90.56	66.23
36.00	69.35	103.75	107.77	107.98	108.04	108.02	107.87	107.45	88.38	66.72
37.00	69.39	103.93	107.96	108.17	108.23	108.22	108.06	107.63	88.42	66.04
38.00	68.87	100.39	104.12	104.33	104.39	104.38	104.21	103.79	86.14	64.40
39.00	68.86	100.56	104.29	104.49	104.56	104.54	104.38	103.96	86.28	63.87
40.00	68.16	95.91	99.24	99.45	99.52	99.50	99.33	98.91	83.42	63.52
41.00	68.09	96.04	99.37	99.58	99.65	99.63	99.46	99.04	83.54	63.72
42.00	67.29	91.10	94.01	94.21	94.28	94.27	94.08	93.68	80.43	62.97
43.00	67.18	91.20	94.10	94.31	94.38	94.36	94.18	93.78	80.53	63.47
44.00	63.46	64.74	65.28	65.49	65.58	65.55	65.34	64.97	63.99	62.13
45.00	62.75	64.19	64.57	64.77	64.85	64.83	64.62	64.31	63.64	61.95

Table B - 9. Temperature (°C) map of the east side of plate 1T2 at MOC 142B (29.7 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.10	51.80	51.77	51.77	51.77	51.77	51.77	51.78	51.86	52.14
1.00	53.56	52.49	52.61	52.63	52.63	52.63	52.63	52.56	52.50	53.40
2.00	58.26	80.29	82.86	82.91	82.92	82.92	82.91	82.76	69.90	56.32
3.00	58.76	80.59	83.18	83.24	83.24	83.24	83.23	83.06	70.23	56.64
4.00	60.07	86.84	89.88	89.95	89.95	89.95	89.94	89.76	74.44	57.63
5.00	60.47	87.10	90.14	90.21	90.22	90.22	90.21	90.02	74.72	57.91
6.00	61.91	93.76	97.26	97.34	97.35	97.35	97.33	97.13	79.27	58.83
7.00	62.34	94.07	97.57	97.66	97.67	97.67	97.65	97.43	79.59	59.13
8.00	63.50	99.04	103.14	103.25	103.27	103.27	103.23	102.97	83.07	59.91
9.00	63.87	99.36	103.47	103.59	103.61	103.61	103.57	103.29	83.57	61.21
10.00	64.92	103.92	108.38	108.50	108.53	108.53	108.48	108.18	86.49	61.70
11.00	65.29	104.26	108.72	108.86	108.88	108.88	108.83	108.52	86.72	61.50
12.00	66.12	107.16	111.82	111.96	111.99	111.99	111.93	111.61	88.68	61.90
13.00	66.48	107.51	112.17	112.32	112.36	112.36	112.29	111.96	89.03	62.28
14.00	67.16	110.08	114.92	115.08	115.12	115.11	115.04	114.69	90.77	62.86
15.00	67.53	110.44	115.28	115.45	115.49	115.48	115.40	115.05	91.08	63.08
16.00	68.10	111.95	116.88	117.06	117.10	117.10	117.01	116.64	92.15	63.39
17.00	68.44	112.30	117.24	117.42	117.47	117.46	117.37	116.99	92.60	64.60
18.00	68.93	113.84	118.87	119.06	119.11	119.10	119.00	118.62	93.81	65.36
19.00	69.28	114.20	119.23	119.43	119.48	119.48	119.37	118.97	94.03	65.41
20.00	69.87	116.15	121.30	121.50	121.56	121.55	121.44	121.03	95.34	65.13
21.00	70.18	116.48	121.63	121.84	121.90	121.90	121.77	121.36	95.67	65.12
22.00	63.00	66.83	68.39	68.58	68.65	68.65	68.49	67.99	64.31	60.79
22.50	60.63	60.27	60.51	60.68	60.75	60.74	60.59	60.33	60.18	60.14

Table B - 10. Temperature (°C) map of the west side of plate 1T2 at MOC 142B (29.7 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.36	51.80	51.77	51.77	51.77	51.77	51.77	51.78	51.86	52.34
1.00	53.91	52.49	52.61	52.63	52.63	52.63	52.62	52.56	52.49	53.65
2.00	58.01	80.27	82.84	82.89	82.89	82.89	82.89	82.74	69.88	55.81
3.00	58.54	80.53	83.12	83.18	83.18	83.18	83.17	83.00	70.18	55.94
4.00	59.77	86.74	89.78	89.84	89.85	89.85	89.84	89.66	74.36	56.84
5.00	60.19	86.95	89.99	90.06	90.07	90.07	90.05	89.87	74.59	57.02
6.00	61.56	93.57	97.06	97.14	97.15	97.14	97.13	96.93	79.09	57.83
7.00	62.00	93.81	97.31	97.39	97.40	97.40	97.38	97.17	79.36	58.15
8.00	63.12	98.73	102.77	102.87	102.88	102.88	102.85	102.59	82.78	58.84
9.00	63.52	98.95	103.03	103.13	103.15	103.15	103.12	102.85	83.21	61.18
10.00	64.54	103.42	107.87	107.98	108.00	107.99	107.96	107.67	86.10	61.35
11.00	64.93	103.69	108.14	108.25	108.27	108.27	108.23	107.93	86.26	60.56
12.00	65.72	106.51	111.15	111.28	111.30	111.30	111.25	110.94	88.16	60.50
13.00	66.09	106.78	111.43	111.56	111.59	111.58	111.53	111.21	88.45	60.82
14.00	66.78	109.28	114.11	114.24	114.27	114.27	114.21	113.88	90.14	61.49
15.00	67.15	109.57	114.39	114.53	114.56	114.56	114.50	114.15	90.39	61.76
16.00	67.69	111.00	115.91	116.06	116.09	116.09	116.02	115.66	91.39	62.02
17.00	68.04	111.28	116.19	116.34	116.38	116.37	116.30	115.94	91.78	64.20
18.00	68.52	112.74	117.75	117.91	117.95	117.94	117.86	117.49	92.92	65.29
19.00	68.86	113.03	118.04	118.20	118.24	118.24	118.15	117.77	93.08	65.16
20.00	69.42	114.90	120.02	120.20	120.24	120.23	120.14	119.75	94.26	63.95
21.00	69.68	115.16	120.29	120.46	120.51	120.50	120.40	120.01	94.51	63.48
22.00	63.28	65.78	67.31	67.48	67.54	67.53	67.39	66.91	63.24	59.94
22.50	61.31	59.17	59.38	59.52	59.58	59.57	59.43	59.19	59.06	61.09

Table B - 11. Temperature (°C) map of the east side of plate 1B5 at MOC 142B (29.7 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	60.74	60.34	60.60	60.77	60.84	60.83	60.67	60.41	60.21	59.96
23.00	63.04	66.99	68.53	68.73	68.80	68.79	68.64	68.15	64.46	60.85
24.00	70.44	117.41	122.57	122.79	122.85	122.85	122.72	122.31	96.49	65.38
25.00	70.72	117.74	122.89	123.12	123.18	123.18	123.04	122.62	96.86	65.87
26.00	70.82	116.73	121.80	122.03	122.10	122.09	121.95	121.52	96.44	66.79
27.00	71.07	117.06	122.14	122.37	122.44	122.44	122.29	121.86	96.92	67.30
28.00	71.33	117.48	122.57	122.80	122.88	122.87	122.72	122.28	97.16	67.11
29.00	71.57	117.84	122.93	123.17	123.25	123.24	123.08	122.64	97.40	66.67
30.00	71.65	117.16	122.19	122.43	122.51	122.50	122.34	121.89	97.06	66.56
31.00	71.83	117.47	122.49	122.74	122.82	122.82	122.65	122.19	97.39	66.81
32.00	71.67	115.64	120.51	120.76	120.84	120.84	120.66	120.20	96.28	66.65
33.00	71.85	115.93	120.81	121.06	121.15	121.14	120.96	120.50	96.55	66.70
34.00	71.69	114.05	118.76	119.02	119.11	119.10	118.92	118.45	95.42	66.91
35.00	71.84	114.34	119.05	119.31	119.40	119.39	119.20	118.73	95.82	67.70
36.00	71.47	111.46	115.93	116.19	116.29	116.28	116.08	115.61	94.16	67.92
37.00	71.59	111.72	116.20	116.47	116.56	116.55	116.35	115.88	94.27	67.61
38.00	71.14	108.44	112.64	112.91	113.01	113.00	112.79	112.32	92.11	66.69
39.00	71.21	108.68	112.88	113.15	113.25	113.24	113.03	112.56	92.33	66.52
40.00	70.46	103.59	107.37	107.64	107.74	107.73	107.52	107.04	89.13	66.17
41.00	70.47	103.79	107.56	107.84	107.94	107.93	107.71	107.24	89.33	66.28
42.00	69.61	98.44	101.75	102.03	102.14	102.13	101.90	101.44	85.90	65.52
43.00	69.58	98.59	101.91	102.19	102.29	102.28	102.06	101.59	86.06	65.72
44.00	64.94	68.02	68.69	68.97	69.08	69.06	68.80	68.36	67.20	63.24
45.00	64.10	67.42	67.91	68.17	68.28	68.27	68.01	67.64	66.82	62.85

Table B - 12. Temperature (°C) map of the west side of plate 1B5 at MOC 142B (29.7 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	61.24	59.24	59.46	59.60	59.67	59.65	59.51	59.27	59.08	60.39
23.00	63.40	65.91	67.42	67.59	67.65	67.64	67.50	67.03	63.36	60.04
24.00	70.16	115.97	121.09	121.28	121.32	121.32	121.21	120.82	95.17	63.85
25.00	70.44	116.25	121.36	121.55	121.60	121.59	121.48	121.08	95.48	64.75
26.00	70.51	115.19	120.22	120.41	120.46	120.45	120.33	119.92	95.02	66.60
27.00	70.72	115.47	120.50	120.70	120.75	120.74	120.62	120.20	95.44	67.30
28.00	70.94	115.83	120.88	121.08	121.13	121.12	120.99	120.57	95.65	66.71
29.00	71.15	116.13	121.18	121.38	121.44	121.43	121.29	120.86	95.83	65.47
30.00	71.19	115.40	120.37	120.58	120.64	120.63	120.49	120.05	95.43	65.00
31.00	71.34	115.65	120.63	120.84	120.90	120.89	120.74	120.30	95.71	65.16
32.00	71.14	113.75	118.57	118.79	118.85	118.84	118.69	118.24	94.55	64.83
33.00	71.28	114.02	118.84	119.06	119.12	119.11	118.95	118.51	94.78	65.02
34.00	71.08	112.03	116.69	116.91	116.98	116.96	116.80	116.35	93.57	65.61
35.00	71.17	112.26	116.92	117.14	117.21	117.20	117.03	116.58	93.92	67.15
36.00	70.77	109.31	113.73	113.95	114.02	114.00	113.83	113.38	92.19	67.80
37.00	70.82	109.52	113.94	114.16	114.24	114.22	114.05	113.59	92.26	67.08
38.00	70.34	106.15	110.29	110.52	110.59	110.57	110.39	109.94	90.05	65.35
39.00	70.35	106.33	110.47	110.70	110.78	110.76	110.58	110.12	90.21	64.80
40.00	69.58	101.15	104.87	105.10	105.17	105.15	104.96	104.51	87.02	64.43
41.00	69.53	101.30	105.01	105.24	105.32	105.30	105.11	104.66	87.16	64.65
42.00	68.66	95.84	99.09	99.32	99.40	99.38	99.18	98.74	83.72	63.84
43.00	68.56	95.95	99.20	99.43	99.51	99.49	99.29	98.85	83.84	64.39
44.00	64.38	66.02	66.64	66.88	66.97	66.95	66.71	66.29	65.16	62.87
45.00	63.59	65.41	65.85	66.07	66.16	66.14	65.90	65.56	64.77	62.67

Table B - 13. Temperature (°C) map of the east side of plate 1T2 at EOC 142B (52.0 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.10	51.80	51.77	51.77	51.77	51.77	51.77	51.78	51.86	52.14
1.00	53.51	52.46	52.57	52.58	52.59	52.59	52.58	52.52	52.47	53.36
2.00	57.97	78.86	81.31	81.36	81.37	81.37	81.36	81.21	68.95	56.13
3.00	58.44	79.14	81.62	81.67	81.68	81.68	81.67	81.50	69.26	56.43
4.00	59.63	84.80	87.69	87.75	87.76	87.76	87.75	87.57	73.07	57.33
5.00	60.00	85.04	87.93	88.00	88.01	88.01	87.99	87.81	73.32	57.58
6.00	61.19	90.43	93.70	93.78	93.79	93.79	93.77	93.57	76.99	58.35
7.00	61.54	90.68	93.95	94.03	94.05	94.04	94.02	93.81	77.26	58.61
8.00	62.56	94.80	98.34	98.43	98.45	98.44	98.42	98.20	80.14	59.28
9.00	62.90	95.05	98.60	98.70	98.72	98.71	98.68	98.45	80.60	60.52
10.00	63.74	98.36	102.38	102.49	102.52	102.51	102.47	102.20	82.86	60.88
11.00	64.08	98.66	102.69	102.81	102.84	102.83	102.78	102.50	83.06	60.69
12.00	64.75	100.82	105.00	105.13	105.16	105.16	105.10	104.80	84.54	60.98
13.00	65.08	101.13	105.31	105.45	105.48	105.48	105.41	105.11	84.85	61.34
14.00	65.62	103.01	107.32	107.46	107.50	107.50	107.43	107.11	86.14	61.83
15.00	65.95	103.32	107.64	107.79	107.82	107.82	107.75	107.42	86.42	62.02
16.00	66.39	104.27	108.64	108.79	108.83	108.83	108.75	108.41	87.12	62.24
17.00	66.69	104.58	108.95	109.11	109.16	109.15	109.06	108.72	87.53	63.37
18.00	67.11	105.77	110.21	110.38	110.43	110.42	110.33	109.98	88.50	64.05
19.00	67.42	106.09	110.53	110.71	110.75	110.75	110.65	110.29	88.68	64.10
20.00	67.84	107.22	111.73	111.91	111.96	111.96	111.85	111.48	89.39	63.76
21.00	68.09	107.50	112.01	112.20	112.25	112.25	112.14	111.76	89.64	63.73
22.00	62.00	64.89	66.21	66.38	66.44	66.43	66.30	65.86	62.76	60.06
22.50	60.00	59.28	59.46	59.60	59.66	59.65	59.52	59.30	59.27	59.62

Table B - 14. Temperature (°C) map of the west side of plate 1T2 at EOC 142B (52.0 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.36	51.80	51.77	51.77	51.77	51.77	51.77	51.78	51.85	52.34
1.00	53.87	52.46	52.57	52.58	52.58	52.58	52.58	52.52	52.47	53.62
2.00	57.76	78.83	81.29	81.34	81.35	81.35	81.34	81.19	68.93	55.66
3.00	58.27	79.09	81.56	81.61	81.62	81.62	81.61	81.45	69.22	55.77
4.00	59.39	84.71	87.59	87.66	87.66	87.66	87.65	87.48	72.99	56.60
5.00	59.79	84.90	87.79	87.86	87.86	87.86	87.85	87.67	73.20	56.77
6.00	60.93	90.25	93.52	93.59	93.60	93.59	93.58	93.38	76.83	57.45
7.00	61.35	90.48	93.74	93.82	93.83	93.83	93.81	93.60	77.07	57.76
8.00	62.31	94.51	98.05	98.13	98.14	98.14	98.12	97.90	79.87	58.35
9.00	62.68	94.71	98.25	98.33	98.34	98.34	98.32	98.10	80.28	60.57
10.00	63.51	97.98	101.91	102.02	102.03	102.03	102.00	101.73	82.50	60.65
11.00	63.87	98.19	102.16	102.27	102.28	102.28	102.24	101.97	82.64	59.90
12.00	64.53	100.24	104.40	104.51	104.54	104.53	104.49	104.20	84.07	59.78
13.00	64.87	100.48	104.65	104.77	104.79	104.79	104.74	104.44	84.34	60.08
14.00	65.43	102.30	106.60	106.72	106.75	106.74	106.69	106.38	85.58	60.66
15.00	65.76	102.55	106.85	106.98	107.01	107.00	106.94	106.63	85.80	60.91
16.00	66.19	103.44	107.78	107.91	107.94	107.94	107.88	107.55	86.45	61.10
17.00	66.50	103.68	108.03	108.17	108.20	108.19	108.13	107.80	86.80	63.14
18.00	66.91	104.82	109.23	109.38	109.41	109.40	109.33	108.99	87.72	64.12
19.00	67.22	105.07	109.49	109.64	109.67	109.67	109.59	109.24	87.86	64.00
20.00	67.63	106.14	110.62	110.77	110.81	110.80	110.72	110.37	88.52	62.82
21.00	67.85	106.37	110.84	111.00	111.04	111.03	110.95	110.59	88.72	62.37
22.00	62.42	64.01	65.30	65.44	65.49	65.49	65.37	64.95	61.86	59.36
22.50	60.75	58.36	58.51	58.62	58.68	58.67	58.55	58.35	58.32	60.58

Table B - 15. Temperature (°C) map of the east side of plate 1B5 at EOC 142B (52.0 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	60.69	58.43	58.58	58.70	58.75	58.74	58.62	58.42	58.34	59.93
23.00	62.52	64.09	65.36	65.51	65.56	65.55	65.43	65.02	61.95	59.45
24.00	68.24	106.83	111.29	111.45	111.50	111.49	111.39	111.04	89.15	62.69
25.00	68.50	107.13	111.59	111.76	111.80	111.80	111.69	111.33	89.43	63.54
26.00	68.64	106.82	111.25	111.42	111.47	111.46	111.35	110.98	89.43	65.27
27.00	68.82	107.07	111.50	111.68	111.73	111.72	111.61	111.23	89.78	65.89
28.00	69.00	107.33	111.77	111.94	111.99	111.98	111.87	111.49	89.90	65.35
29.00	69.18	107.59	112.03	112.21	112.26	112.25	112.13	111.75	90.03	64.20
30.00	69.24	107.22	111.62	111.80	111.85	111.84	111.72	111.33	89.86	63.78
31.00	69.36	107.45	111.85	112.03	112.09	112.07	111.95	111.55	90.09	63.91
32.00	69.24	106.12	110.40	110.59	110.64	110.63	110.50	110.10	89.31	63.65
33.00	69.35	106.36	110.64	110.83	110.89	110.88	110.74	110.34	89.50	63.81
34.00	69.22	105.01	109.17	109.37	109.42	109.41	109.27	108.86	88.72	64.40
35.00	69.29	105.21	109.38	109.58	109.64	109.62	109.48	109.07	89.01	65.79
36.00	69.03	103.26	107.26	107.46	107.52	107.51	107.36	106.95	87.96	66.43
37.00	69.07	103.46	107.46	107.66	107.72	107.71	107.55	107.14	88.01	65.78
38.00	68.67	100.71	104.48	104.68	104.75	104.73	104.57	104.16	86.24	64.23
39.00	68.67	100.88	104.66	104.86	104.92	104.91	104.75	104.34	86.38	63.71
40.00	68.08	96.92	100.36	100.57	100.63	100.61	100.45	100.04	83.95	63.43
41.00	68.02	97.06	100.50	100.71	100.77	100.75	100.59	100.18	84.08	63.63
42.00	67.29	92.58	95.63	95.83	95.90	95.88	95.71	95.31	81.26	62.93
43.00	67.18	92.69	95.74	95.94	96.01	95.99	95.82	95.42	81.36	63.42
44.00	63.22	64.39	64.93	65.13	65.21	65.19	64.99	64.62	63.66	61.93
45.00	62.47	63.81	64.17	64.36	64.44	64.41	64.21	63.92	63.27	61.71

Table B - 16. Temperature (°C) map of the west side of plate 1B5 at EOC 142B (52.0 EFPD).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	60.10	59.34	59.53	59.67	59.74	59.73	59.59	59.37	59.29	59.44
23.00	62.04	65.00	66.30	66.47	66.53	66.52	66.38	65.96	62.87	60.11
24.00	68.29	108.08	112.56	112.76	112.81	112.81	112.69	112.32	90.15	63.94
25.00	68.56	108.41	112.90	113.10	113.16	113.16	113.03	112.65	90.47	64.41
26.00	68.73	108.14	112.60	112.80	112.86	112.86	112.73	112.35	90.51	65.31
27.00	68.95	108.43	112.90	113.10	113.17	113.16	113.03	112.64	90.90	65.75
28.00	69.16	108.73	113.20	113.41	113.47	113.47	113.33	112.94	91.04	65.57
29.00	69.36	109.04	113.52	113.73	113.80	113.79	113.65	113.25	91.22	65.16
30.00	69.46	108.71	113.15	113.36	113.43	113.43	113.28	112.88	91.09	65.07
31.00	69.62	108.98	113.42	113.64	113.71	113.70	113.56	113.15	91.38	65.29
32.00	69.54	107.70	112.03	112.25	112.32	112.31	112.16	111.75	90.63	65.18
33.00	69.69	107.96	112.29	112.51	112.59	112.58	112.42	112.01	90.86	65.22
34.00	69.61	106.70	110.90	111.13	111.21	111.20	111.04	110.62	90.13	65.46
35.00	69.73	106.95	111.16	111.39	111.47	111.46	111.30	110.87	90.49	66.17
36.00	69.52	105.06	109.10	109.33	109.41	109.40	109.24	108.81	89.47	66.45
37.00	69.61	105.29	109.34	109.58	109.66	109.65	109.48	109.05	89.56	66.16
38.00	69.26	102.62	106.44	106.68	106.76	106.75	106.57	106.15	87.82	65.35
39.00	69.32	102.84	106.66	106.90	106.98	106.97	106.79	106.37	88.00	65.19
40.00	68.75	98.95	102.44	102.68	102.77	102.76	102.57	102.15	85.63	64.94
41.00	68.76	99.14	102.63	102.87	102.96	102.95	102.76	102.34	85.80	65.04
42.00	68.06	94.74	97.84	98.08	98.17	98.16	97.97	97.55	83.04	64.40
43.00	68.02	94.89	97.99	98.23	98.32	98.31	98.12	97.71	83.18	64.58
44.00	63.63	66.04	66.62	66.85	66.95	66.93	66.71	66.33	65.34	62.21
45.00	62.83	65.46	65.87	66.09	66.18	66.17	65.95	65.64	64.97	61.81

Table B - 17. Temperature (°C) map of the east side of plate 1T2 at BOC 143A (52.0 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.08	51.79	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.12
1.00	53.11	52.31	52.39	52.40	52.40	52.40	52.40	52.35	52.32	53.02
2.00	55.88	73.28	75.32	75.36	75.37	75.37	75.36	75.23	65.20	54.60
3.00	56.23	73.48	75.54	75.58	75.58	75.58	75.58	75.43	65.42	54.81
4.00	57.09	78.29	80.73	80.78	80.79	80.79	80.78	80.62	68.58	55.46
5.00	57.36	78.44	80.88	80.93	80.93	80.93	80.93	80.76	68.74	55.64
6.00	58.04	81.70	84.38	84.44	84.45	84.44	84.43	84.26	70.91	56.07
7.00	58.33	81.86	84.54	84.60	84.61	84.61	84.60	84.42	71.08	56.27
8.00	59.05	85.16	88.08	88.14	88.15	88.15	88.14	87.95	73.32	56.75
9.00	59.30	85.30	88.22	88.29	88.30	88.30	88.28	88.09	73.64	57.75
10.00	59.99	88.38	91.52	91.59	91.60	91.60	91.58	91.38	75.68	58.05
11.00	60.24	88.54	91.67	91.75	91.76	91.75	91.73	91.53	75.77	57.87
12.00	60.82	90.71	93.99	94.07	94.08	94.08	94.06	93.85	77.30	58.12
13.00	61.06	90.87	94.15	94.23	94.24	94.24	94.21	94.00	77.49	58.40
14.00	61.55	92.75	96.15	96.23	96.24	96.24	96.22	96.00	78.83	58.82
15.00	61.79	92.92	96.31	96.39	96.41	96.41	96.38	96.16	78.99	58.96
16.00	62.26	94.47	97.96	98.05	98.07	98.06	98.03	97.81	80.11	59.20
17.00	62.48	94.64	98.13	98.22	98.24	98.24	98.20	97.97	80.40	60.14
18.00	62.87	96.00	99.67	99.78	99.80	99.79	99.75	99.49	81.49	60.73
19.00	63.10	96.17	99.87	99.98	100.00	100.00	99.95	99.68	81.57	60.75
20.00	63.36	96.65	100.42	100.54	100.56	100.56	100.51	100.23	81.88	60.40
21.00	63.53	96.80	100.59	100.70	100.73	100.73	100.67	100.39	82.03	60.35
22.00	59.20	61.08	62.12	62.22	62.25	62.24	62.17	61.86	59.36	57.88
22.50	57.86	56.31	56.35	56.42	56.45	56.44	56.38	56.26	56.44	57.82

Table B - 18. Temperature (°C) map of the west side of plate 1T2 at BOC 143A (52.0 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.33	51.79	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.31
1.00	53.58	52.31	52.39	52.40	52.40	52.40	52.40	52.35	52.32	53.35
2.00	56.38	73.29	75.33	75.37	75.37	75.37	75.37	75.24	65.20	54.62
3.00	56.79	73.49	75.55	75.59	75.60	75.59	75.59	75.44	65.42	54.69
4.00	57.69	78.31	80.75	80.80	80.80	80.80	80.80	80.64	68.58	55.34
5.00	58.01	78.46	80.90	80.95	80.96	80.96	80.95	80.78	68.74	55.46
6.00	58.74	81.73	84.41	84.47	84.47	84.47	84.46	84.29	70.92	55.89
7.00	59.08	81.90	84.58	84.64	84.65	84.65	84.63	84.45	71.10	56.13
8.00	59.83	85.20	88.12	88.19	88.20	88.20	88.18	87.99	73.33	56.58
9.00	60.12	85.35	88.28	88.35	88.35	88.35	88.33	88.14	73.66	58.41
10.00	60.85	88.44	91.58	91.65	91.66	91.66	91.64	91.44	75.71	58.50
11.00	61.14	88.60	91.74	91.82	91.83	91.83	91.80	91.59	75.81	57.88
12.00	61.75	90.79	94.07	94.15	94.16	94.16	94.13	93.92	77.34	57.80
13.00	62.03	90.96	94.24	94.32	94.33	94.33	94.30	94.08	77.54	58.04
14.00	62.55	92.85	96.24	96.33	96.35	96.35	96.31	96.09	78.88	58.55
15.00	62.82	93.02	96.42	96.51	96.52	96.52	96.49	96.25	79.05	58.74
16.00	63.31	94.59	98.08	98.18	98.20	98.19	98.15	97.91	80.18	58.97
17.00	63.56	94.77	98.27	98.38	98.40	98.40	98.35	98.08	80.47	60.68
18.00	63.96	96.13	99.83	99.95	99.97	99.97	99.91	99.63	81.56	61.54
19.00	64.21	96.32	100.04	100.16	100.19	100.18	100.13	99.84	81.66	61.43
20.00	64.49	96.81	100.61	100.74	100.76	100.76	100.70	100.40	81.98	60.39
21.00	64.66	96.97	100.79	100.92	100.94	100.94	100.87	100.57	82.13	59.99
22.00	60.40	61.23	62.28	62.38	62.41	62.41	62.33	62.00	59.48	57.77
22.50	59.13	56.48	56.52	56.59	56.62	56.62	56.54	56.41	56.55	59.01

Table B - 19. Temperature (°C) map of the east side of plate 1B5 at BOC 143A (52.0 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	57.91	56.36	56.41	56.48	56.51	56.50	56.43	56.31	56.45	57.65
23.00	59.31	61.12	62.14	62.24	62.27	62.27	62.20	61.89	59.42	57.99
24.00	63.92	97.10	100.89	101.01	101.04	101.04	100.98	100.71	82.35	60.72
25.00	64.12	97.36	101.17	101.30	101.33	101.32	101.26	100.98	82.60	61.09
26.00	64.27	97.55	101.37	101.50	101.53	101.52	101.46	101.17	82.88	61.85
27.00	64.39	97.73	101.56	101.69	101.72	101.71	101.65	101.36	83.16	62.18
28.00	64.38	96.91	100.66	100.79	100.82	100.82	100.75	100.46	82.58	61.91
29.00	64.49	97.10	100.85	100.98	101.01	101.01	100.94	100.64	82.65	61.51
30.00	64.44	96.06	99.71	99.85	99.88	99.87	99.80	99.51	82.03	61.34
31.00	64.52	96.22	99.87	100.01	100.04	100.04	99.96	99.67	82.20	61.49
32.00	64.40	94.98	98.51	98.64	98.68	98.67	98.59	98.30	81.44	61.37
33.00	64.47	95.13	98.68	98.82	98.85	98.85	98.77	98.47	81.56	61.36
34.00	64.30	93.79	97.16	97.30	97.34	97.33	97.25	96.95	80.73	61.49
35.00	64.35	93.92	97.31	97.45	97.49	97.48	97.40	97.10	80.95	62.02
36.00	64.03	91.73	94.82	94.96	95.00	94.99	94.91	94.62	79.64	62.14
37.00	64.04	91.85	94.96	95.09	95.13	95.13	95.04	94.75	79.64	61.86
38.00	63.66	89.36	92.23	92.35	92.39	92.38	92.30	92.04	77.95	61.15
39.00	63.65	89.46	92.32	92.45	92.49	92.48	92.40	92.14	78.04	60.97
40.00	63.20	86.57	89.21	89.34	89.38	89.37	89.29	89.03	76.19	60.77
41.00	63.15	86.65	89.29	89.42	89.46	89.45	89.37	89.11	76.27	60.80
42.00	62.48	82.48	84.79	84.91	84.95	84.95	84.86	84.60	73.55	60.22
43.00	62.40	82.53	84.84	84.97	85.01	85.00	84.91	84.66	73.61	60.32
44.00	59.54	60.34	60.69	60.82	60.86	60.85	60.73	60.50	59.92	58.90
45.00	59.02	59.87	60.07	60.18	60.23	60.21	60.10	59.93	59.62	58.68

Table B - 20. Temperature (°C) map of the west side of plate 1B5 at BOC 143A (52.0 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	59.08	56.52	56.58	56.65	56.68	56.68	56.60	56.46	56.56	58.44
23.00	60.51	61.29	62.31	62.42	62.45	62.44	62.36	62.04	59.55	57.88
24.00	65.06	97.33	101.14	101.27	101.30	101.29	101.22	100.93	82.49	60.36
25.00	65.27	97.61	101.43	101.57	101.60	101.59	101.52	101.21	82.74	61.07
26.00	65.42	97.82	101.64	101.78	101.82	101.81	101.73	101.42	83.03	62.54
27.00	65.53	98.01	101.85	101.99	102.02	102.01	101.93	101.61	83.32	63.02
28.00	65.52	97.20	100.96	101.10	101.14	101.13	101.04	100.72	82.75	62.46
29.00	65.62	97.41	101.16	101.31	101.35	101.34	101.25	100.92	82.83	61.47
30.00	65.55	96.38	100.04	100.19	100.23	100.22	100.12	99.80	82.22	61.04
31.00	65.61	96.55	100.22	100.37	100.40	100.40	100.30	99.97	82.39	61.12
32.00	65.47	95.31	98.87	99.01	99.05	99.05	98.94	98.62	81.65	60.88
33.00	65.52	95.49	99.05	99.20	99.24	99.23	99.13	98.80	81.78	60.98
34.00	65.34	94.12	97.55	97.70	97.74	97.73	97.63	97.30	80.96	61.42
35.00	65.35	94.27	97.71	97.86	97.90	97.89	97.78	97.45	81.18	62.50
36.00	65.00	92.08	95.24	95.39	95.43	95.42	95.31	94.98	79.88	62.92
37.00	64.98	92.21	95.38	95.53	95.58	95.56	95.45	95.12	79.89	62.35
38.00	64.57	89.74	92.62	92.76	92.80	92.79	92.68	92.39	78.21	61.06
39.00	64.52	89.84	92.73	92.87	92.91	92.90	92.79	92.49	78.30	60.61
40.00	64.04	86.97	89.63	89.77	89.81	89.80	89.69	89.39	76.46	60.38
41.00	63.95	87.06	89.72	89.86	89.90	89.89	89.78	89.48	76.55	60.49
42.00	63.24	82.90	85.23	85.37	85.42	85.40	85.28	84.99	73.84	59.87
43.00	63.10	82.96	85.29	85.43	85.47	85.46	85.34	85.05	73.90	60.21
44.00	60.23	60.68	61.05	61.18	61.23	61.22	61.07	60.81	60.19	59.25
45.00	59.68	60.21	60.42	60.54	60.59	60.58	60.44	60.24	59.89	59.11

Table B - 21. Temperature (°C) map of the east side of plate 1T2 at MOC 143A (70.0 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.08	51.79	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.12
1.00	53.18	52.38	52.49	52.50	52.50	52.50	52.50	52.44	52.37	53.08
2.00	56.38	76.54	78.86	78.91	78.91	78.91	78.90	78.76	67.31	54.90
3.00	56.73	76.76	79.09	79.14	79.14	79.14	79.13	78.98	67.54	55.11
4.00	57.58	81.34	84.02	84.08	84.08	84.08	84.07	83.91	70.58	55.77
5.00	57.85	81.50	84.18	84.23	84.24	84.24	84.23	84.06	70.75	55.95
6.00	58.56	84.80	87.72	87.78	87.79	87.79	87.78	87.60	72.97	56.39
7.00	58.86	84.97	87.89	87.96	87.97	87.97	87.95	87.76	73.16	56.60
8.00	59.54	87.98	91.11	91.18	91.19	91.19	91.17	90.98	75.22	57.06
9.00	59.80	88.13	91.26	91.33	91.34	91.34	91.32	91.13	75.56	58.10
10.00	60.36	90.35	93.63	93.70	93.71	93.71	93.69	93.49	77.03	58.30
11.00	60.62	90.51	93.78	93.86	93.87	93.87	93.85	93.64	77.13	58.12
12.00	61.22	92.75	96.17	96.25	96.27	96.26	96.24	96.03	78.71	58.38
13.00	61.46	92.92	96.33	96.42	96.43	96.43	96.40	96.18	78.91	58.66
14.00	61.77	93.56	97.00	97.09	97.11	97.10	97.08	96.85	79.42	58.98
15.00	62.01	93.72	97.16	97.25	97.27	97.27	97.23	97.01	79.58	59.11
16.00	62.39	94.78	98.29	98.39	98.41	98.41	98.37	98.13	80.36	59.30
17.00	62.62	94.94	98.47	98.58	98.60	98.60	98.56	98.30	80.65	60.24
18.00	62.88	95.48	99.09	99.20	99.22	99.22	99.17	98.91	81.19	60.77
19.00	63.10	95.65	99.28	99.39	99.41	99.41	99.36	99.09	81.27	60.77
20.00	63.32	95.88	99.54	99.66	99.68	99.68	99.63	99.35	81.40	60.40
21.00	63.49	96.02	99.70	99.82	99.84	99.84	99.79	99.51	81.54	60.33
22.00	59.27	61.11	62.14	62.24	62.27	62.27	62.19	61.88	59.43	57.93
22.50	57.96	56.47	56.52	56.59	56.62	56.62	56.55	56.43	56.59	57.90

Table B - 22. Temperature (°C) map of the west side of plate 1T2 at MOC 143A (70.0 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.33	51.79	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.31
1.00	53.65	52.38	52.49	52.50	52.50	52.50	52.50	52.44	52.37	53.40
2.00	56.87	76.55	78.86	78.91	78.91	78.91	78.91	78.77	67.30	54.89
3.00	57.29	76.77	79.10	79.15	79.15	79.15	79.14	78.99	67.54	54.96
4.00	58.18	81.36	84.04	84.09	84.10	84.10	84.09	83.92	70.59	55.61
5.00	58.51	81.52	84.20	84.26	84.26	84.26	84.25	84.08	70.76	55.74
6.00	59.25	84.83	87.75	87.81	87.82	87.82	87.81	87.62	72.98	56.18
7.00	59.56	84.98	87.91	87.97	87.98	87.98	87.96	87.77	73.15	56.41
8.00	60.32	88.02	91.15	91.22	91.23	91.23	91.21	91.01	75.24	56.86
9.00	60.62	88.18	91.31	91.39	91.40	91.40	91.38	91.17	75.57	58.75
10.00	61.23	90.41	93.69	93.77	93.78	93.78	93.75	93.54	77.06	58.75
11.00	61.52	90.57	93.85	93.93	93.95	93.94	93.92	93.70	77.16	58.10
12.00	62.15	92.83	96.25	96.34	96.35	96.35	96.32	96.09	78.75	58.02
13.00	62.43	93.00	96.42	96.51	96.52	96.52	96.49	96.26	78.95	58.26
14.00	62.77	93.65	97.10	97.19	97.21	97.21	97.17	96.94	79.47	58.69
15.00	63.04	93.82	97.27	97.36	97.38	97.38	97.34	97.10	79.63	58.87
16.00	63.45	94.89	98.43	98.54	98.56	98.56	98.50	98.24	80.43	59.06
17.00	63.70	95.07	98.63	98.74	98.76	98.76	98.70	98.43	80.72	60.78
18.00	63.98	95.62	99.25	99.37	99.40	99.39	99.33	99.05	81.26	61.58
19.00	64.21	95.79	99.45	99.57	99.60	99.60	99.53	99.25	81.35	61.45
20.00	64.45	96.04	99.73	99.86	99.89	99.88	99.82	99.52	81.50	60.39
21.00	64.62	96.19	99.90	100.03	100.06	100.06	99.99	99.69	81.65	59.98
22.00	60.46	61.27	62.30	62.40	62.44	62.43	62.35	62.02	59.54	57.82
22.50	59.23	56.64	56.69	56.76	56.80	56.79	56.71	56.57	56.69	59.09

Table B - 23. Temperature (°C) map of the east side of plate 1B5 at MOC 143A (70.0 EFPP cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	58.01	56.52	56.58	56.65	56.68	56.67	56.60	56.48	56.60	57.73
23.00	59.37	61.14	62.15	62.25	62.28	62.27	62.20	61.89	59.48	58.04
24.00	63.85	96.19	99.86	99.99	100.01	100.01	99.95	99.68	81.79	60.69
25.00	64.04	96.41	100.13	100.25	100.28	100.28	100.22	99.93	82.02	61.06
26.00	64.18	96.51	100.23	100.36	100.39	100.39	100.32	100.04	82.25	61.80
27.00	64.32	96.70	100.43	100.56	100.59	100.59	100.52	100.23	82.54	62.15
28.00	64.48	97.14	100.90	101.03	101.06	101.06	100.99	100.69	82.76	61.98
29.00	64.60	97.33	101.09	101.23	101.26	101.26	101.18	100.89	82.84	61.59
30.00	64.60	96.66	100.36	100.50	100.53	100.53	100.45	100.15	82.45	61.45
31.00	64.68	96.83	100.53	100.67	100.70	100.70	100.62	100.32	82.62	61.60
32.00	64.62	95.97	99.59	99.73	99.77	99.76	99.68	99.38	82.12	61.51
33.00	64.69	96.15	99.77	99.91	99.95	99.94	99.86	99.56	82.25	61.52
34.00	64.54	94.78	98.28	98.42	98.46	98.45	98.37	98.07	81.43	61.65
35.00	64.58	94.93	98.43	98.58	98.61	98.61	98.52	98.22	81.66	62.19
36.00	64.47	93.99	97.39	97.53	97.57	97.57	97.48	97.17	81.20	62.44
37.00	64.49	94.12	97.53	97.68	97.72	97.71	97.62	97.32	81.20	62.17
38.00	64.12	91.70	94.80	94.94	94.98	94.98	94.88	94.58	79.56	61.45
39.00	64.12	91.81	94.92	95.07	95.11	95.10	95.01	94.71	79.65	61.27
40.00	63.70	89.13	91.95	92.08	92.12	92.12	92.03	91.76	77.93	61.09
41.00	63.66	89.21	92.04	92.18	92.22	92.21	92.12	91.85	78.02	61.14
42.00	63.08	85.62	88.17	88.30	88.34	88.33	88.24	87.97	75.66	60.60
43.00	63.00	85.68	88.23	88.36	88.40	88.40	88.30	88.04	75.73	60.72
44.00	59.77	60.69	61.08	61.21	61.26	61.25	61.13	60.88	60.23	59.08
45.00	59.20	60.16	60.38	60.49	60.54	60.53	60.41	60.23	59.89	58.83

Table B - 24. Temperature (°C) map of the west side of plate 1B5 at MOC 143A (70.0 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	59.18	56.68	56.74	56.82	56.86	56.85	56.77	56.62	56.71	58.52
23.00	60.57	61.31	62.31	62.42	62.45	62.45	62.36	62.04	59.60	57.92
24.00	65.00	96.40	100.11	100.24	100.27	100.27	100.19	99.90	81.92	60.33
25.00	65.20	96.66	100.39	100.53	100.56	100.55	100.47	100.17	82.17	61.05
26.00	65.34	96.78	100.51	100.65	100.68	100.68	100.59	100.28	82.40	62.50
27.00	65.47	96.98	100.72	100.86	100.90	100.89	100.80	100.48	82.69	63.00
28.00	65.62	97.43	101.20	101.34	101.38	101.37	101.28	100.96	82.93	62.54
29.00	65.73	97.64	101.41	101.56	101.60	101.59	101.49	101.16	83.02	61.55
30.00	65.71	96.98	100.69	100.84	100.88	100.87	100.77	100.44	82.64	61.13
31.00	65.78	97.16	100.87	101.02	101.06	101.05	100.95	100.62	82.82	61.23
32.00	65.70	96.32	99.95	100.10	100.14	100.14	100.03	99.70	82.33	61.01
33.00	65.75	96.49	100.12	100.28	100.32	100.31	100.20	99.87	82.45	61.04
34.00	65.57	95.15	98.67	98.82	98.86	98.86	98.74	98.41	81.65	61.56
35.00	65.59	95.31	98.83	98.99	99.03	99.02	98.91	98.57	81.88	62.67
36.00	65.44	94.37	97.80	97.96	98.00	97.99	97.87	97.53	81.42	63.22
37.00	65.43	94.52	97.95	98.11	98.16	98.15	98.03	97.69	81.45	62.65
38.00	65.04	92.07	95.23	95.39	95.44	95.43	95.30	94.97	79.81	61.33
39.00	64.99	92.19	95.36	95.52	95.57	95.56	95.43	95.10	79.91	60.88
40.00	64.55	89.52	92.37	92.51	92.56	92.55	92.43	92.12	78.20	60.66
41.00	64.46	89.62	92.46	92.62	92.67	92.65	92.53	92.22	78.30	60.79
42.00	63.84	86.04	88.60	88.75	88.79	88.78	88.66	88.36	75.95	60.20
43.00	63.71	86.11	88.68	88.82	88.87	88.85	88.73	88.43	76.02	60.57
44.00	60.47	61.03	61.44	61.58	61.63	61.61	61.47	61.19	60.50	59.44
45.00	59.87	60.50	60.73	60.86	60.91	60.90	60.75	60.54	60.15	59.27

Table B - 25. Temperature (°C) map of the east side of plate 1T2 at MOC 143A (90.0 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.08	51.79	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.12
1.00	53.19	52.39	52.50	52.52	52.52	52.52	52.51	52.46	52.38	53.08
2.00	56.45	77.03	79.38	79.43	79.43	79.43	79.43	79.28	67.62	54.95
3.00	56.81	77.24	79.61	79.66	79.67	79.66	79.66	79.50	67.85	55.16
4.00	57.67	81.93	84.66	84.71	84.72	84.72	84.71	84.54	70.97	55.82
5.00	57.95	82.09	84.81	84.87	84.88	84.88	84.87	84.69	71.14	56.01
6.00	58.61	85.05	87.99	88.05	88.06	88.06	88.05	87.86	73.14	56.42
7.00	58.87	85.20	88.14	88.20	88.21	88.21	88.20	88.01	73.31	56.61
8.00	59.45	87.39	90.48	90.55	90.56	90.56	90.54	90.35	74.83	57.01
9.00	59.71	87.54	90.63	90.70	90.71	90.71	90.69	90.49	75.17	58.04
10.00	60.15	88.97	92.15	92.23	92.24	92.23	92.21	92.01	76.11	58.16
11.00	60.39	89.12	92.30	92.37	92.39	92.38	92.36	92.15	76.20	57.98
12.00	60.76	89.89	93.11	93.19	93.20	93.20	93.17	92.96	76.79	58.09
13.00	60.99	90.04	93.25	93.33	93.35	93.35	93.32	93.11	76.97	58.36
14.00	61.28	90.61	93.84	93.93	93.94	93.94	93.91	93.70	77.42	58.67
15.00	61.50	90.76	93.99	94.08	94.09	94.09	94.06	93.84	77.57	58.79
16.00	61.78	91.17	94.41	94.50	94.52	94.52	94.48	94.26	77.91	58.92
17.00	61.99	91.31	94.56	94.65	94.67	94.67	94.63	94.40	78.18	59.83
18.00	62.20	91.51	94.75	94.85	94.87	94.86	94.83	94.60	78.48	60.30
19.00	62.39	91.66	94.90	94.99	95.01	95.01	94.97	94.74	78.55	60.30
20.00	62.58	91.71	94.94	95.03	95.06	95.05	95.01	94.78	78.56	59.92
21.00	62.73	91.83	95.06	95.16	95.18	95.18	95.13	94.90	78.69	59.86
22.00	58.97	60.37	61.28	61.37	61.40	61.39	61.32	61.04	58.89	57.73
22.50	57.81	56.23	56.26	56.32	56.35	56.34	56.28	56.17	56.38	57.78

Table B - 26. Temperature (°C) map of the west side of plate 1T2 at MOC 143A (90.0 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.33	51.79	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.31
1.00	53.66	52.39	52.50	52.52	52.52	52.52	52.51	52.46	52.38	53.41
2.00	56.94	77.03	79.38	79.43	79.44	79.44	79.43	79.29	67.62	54.94
3.00	57.37	77.25	79.62	79.67	79.68	79.68	79.67	79.51	67.85	55.01
4.00	58.27	81.95	84.67	84.73	84.73	84.73	84.72	84.55	70.98	55.67
5.00	58.60	82.11	84.83	84.89	84.90	84.90	84.89	84.71	71.15	55.79
6.00	59.30	85.08	88.02	88.08	88.09	88.09	88.08	87.89	73.15	56.20
7.00	59.61	85.23	88.17	88.24	88.25	88.25	88.23	88.04	73.32	56.44
8.00	60.24	87.44	90.53	90.60	90.60	90.60	90.59	90.38	74.85	56.81
9.00	60.53	87.59	90.68	90.75	90.76	90.76	90.74	90.54	75.18	58.69
10.00	61.01	89.03	92.21	92.29	92.30	92.30	92.27	92.06	76.14	58.62
11.00	61.30	89.19	92.37	92.45	92.46	92.46	92.43	92.21	76.23	57.97
12.00	61.70	89.97	93.19	93.27	93.28	93.28	93.25	93.03	76.83	57.78
13.00	61.96	90.13	93.34	93.43	93.44	93.44	93.41	93.18	77.02	58.01
14.00	62.28	90.70	93.94	94.03	94.05	94.05	94.01	93.78	77.47	58.41
15.00	62.53	90.86	94.10	94.19	94.21	94.21	94.17	93.93	77.63	58.59
16.00	62.84	91.28	94.54	94.63	94.65	94.65	94.60	94.37	77.98	58.72
17.00	63.07	91.44	94.69	94.79	94.81	94.81	94.76	94.52	78.26	60.39
18.00	63.30	91.65	94.90	95.00	95.02	95.02	94.97	94.73	78.56	61.12
19.00	63.51	91.81	95.06	95.16	95.18	95.18	95.12	94.88	78.64	60.99
20.00	63.71	91.87	95.11	95.21	95.24	95.23	95.18	94.93	78.66	59.96
21.00	63.86	92.01	95.24	95.35	95.37	95.37	95.31	95.06	78.80	59.56
22.00	60.17	60.53	61.43	61.53	61.56	61.56	61.48	61.18	59.00	57.63
22.50	59.07	56.40	56.42	56.49	56.52	56.52	56.44	56.32	56.48	58.95

Table B - 27. Temperature (°C) map of the east side of plate 1B5 at MOC 143A (90.0 EFPP cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	57.86	56.27	56.30	56.37	56.40	56.39	56.33	56.22	56.38	57.60
23.00	59.06	60.36	61.23	61.33	61.35	61.35	61.28	61.01	58.91	57.82
24.00	63.03	91.67	94.84	94.94	94.96	94.96	94.91	94.69	78.70	60.17
25.00	63.21	91.90	95.08	95.18	95.21	95.20	95.15	94.92	78.93	60.53
26.00	63.38	92.33	95.53	95.63	95.66	95.66	95.60	95.37	79.38	61.26
27.00	63.51	92.48	95.68	95.79	95.82	95.81	95.76	95.52	79.64	61.58
28.00	63.64	92.75	95.97	96.08	96.10	96.10	96.04	95.80	79.77	61.41
29.00	63.75	92.91	96.13	96.26	96.29	96.28	96.21	95.96	79.83	61.04
30.00	63.81	92.78	95.98	96.11	96.14	96.13	96.06	95.80	79.79	60.94
31.00	63.89	92.91	96.14	96.27	96.30	96.29	96.22	95.95	79.95	61.08
32.00	63.92	92.74	95.94	96.07	96.10	96.10	96.02	95.75	79.87	61.05
33.00	63.99	92.87	96.10	96.22	96.26	96.25	96.18	95.90	79.99	61.04
34.00	63.95	92.43	95.60	95.73	95.76	95.76	95.68	95.40	79.75	61.25
35.00	64.00	92.56	95.75	95.88	95.91	95.91	95.83	95.55	79.96	61.77
36.00	63.94	92.09	95.22	95.35	95.39	95.38	95.30	95.02	79.80	62.05
37.00	63.96	92.21	95.36	95.50	95.53	95.53	95.44	95.16	79.81	61.78
38.00	63.68	90.37	93.33	93.45	93.49	93.48	93.40	93.15	78.55	61.14
39.00	63.68	90.48	93.44	93.56	93.60	93.59	93.52	93.26	78.64	60.96
40.00	63.35	88.42	91.22	91.34	91.38	91.37	91.29	91.04	77.33	60.84
41.00	63.31	88.51	91.31	91.44	91.47	91.46	91.39	91.13	77.42	60.88
42.00	62.87	85.89	88.49	88.61	88.64	88.64	88.56	88.30	75.70	60.44
43.00	62.80	85.96	88.56	88.68	88.72	88.71	88.63	88.38	75.78	60.56
44.00	59.48	60.22	60.59	60.71	60.76	60.74	60.63	60.40	59.79	58.85
45.00	58.89	59.67	59.86	59.97	60.01	60.00	59.89	59.73	59.43	58.57

Table B - 28. Temperature (°C) map of the west side of plate 1B5 at MOC 143A (90.0 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	59.03	56.44	56.47	56.54	56.58	56.57	56.49	56.37	56.49	58.40
23.00	60.26	60.52	61.40	61.50	61.53	61.53	61.44	61.16	59.03	57.73
24.00	64.17	91.89	95.06	95.17	95.19	95.19	95.13	94.88	78.84	59.87
25.00	64.37	92.13	95.31	95.43	95.45	95.45	95.38	95.13	79.08	60.57
26.00	64.54	92.58	95.78	95.89	95.92	95.91	95.84	95.59	79.54	61.98
27.00	64.65	92.74	95.95	96.07	96.10	96.10	96.02	95.75	79.81	62.44
28.00	64.78	93.02	96.26	96.39	96.42	96.42	96.33	96.05	79.94	61.99
29.00	64.88	93.19	96.46	96.59	96.62	96.62	96.53	96.24	80.02	61.05
30.00	64.92	93.06	96.32	96.45	96.49	96.48	96.39	96.10	79.98	60.68
31.00	64.98	93.21	96.49	96.63	96.66	96.65	96.56	96.26	80.15	60.77
32.00	64.99	93.05	96.31	96.44	96.48	96.47	96.38	96.07	80.09	60.61
33.00	65.03	93.19	96.47	96.61	96.65	96.64	96.54	96.23	80.21	60.63
34.00	64.98	92.76	95.99	96.13	96.17	96.16	96.06	95.75	79.98	61.20
35.00	64.99	92.90	96.15	96.29	96.33	96.32	96.22	95.91	80.20	62.26
36.00	64.91	92.44	95.63	95.78	95.82	95.81	95.70	95.39	80.04	62.82
37.00	64.90	92.57	95.78	95.93	95.97	95.96	95.85	95.54	80.06	62.28
38.00	64.59	90.75	93.73	93.87	93.91	93.90	93.79	93.49	78.81	61.05
39.00	64.54	90.87	93.86	94.01	94.05	94.04	93.92	93.61	78.91	60.60
40.00	64.18	88.82	91.63	91.77	91.80	91.79	91.69	91.40	77.61	60.44
41.00	64.10	88.92	91.73	91.87	91.91	91.90	91.79	91.50	77.71	60.56
42.00	63.62	86.31	88.92	89.06	89.10	89.08	88.97	88.69	75.99	60.06
43.00	63.50	86.39	89.00	89.14	89.18	89.17	89.05	88.76	76.07	60.42
44.00	60.16	60.56	60.95	61.07	61.12	61.11	60.97	60.71	60.06	59.20
45.00	59.54	60.01	60.22	60.33	60.38	60.36	60.23	60.04	59.70	59.00

Table B - 29. Temperature (°C) map of the east side of plate 1T2 at EOC 143A (100.9 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.08	51.79	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.12
1.00	53.17	52.37	52.48	52.49	52.49	52.49	52.49	52.43	52.37	53.07
2.00	56.33	76.26	78.55	78.59	78.60	78.60	78.59	78.45	67.12	54.88
3.00	56.68	76.46	78.77	78.82	78.82	78.82	78.82	78.66	67.35	55.08
4.00	57.48	80.71	83.34	83.39	83.40	83.39	83.39	83.22	70.17	55.70
5.00	57.74	80.85	83.49	83.54	83.55	83.55	83.54	83.37	70.33	55.88
6.00	58.34	83.42	86.24	86.30	86.31	86.31	86.30	86.12	72.06	56.26
7.00	58.59	83.56	86.38	86.44	86.45	86.45	86.44	86.25	72.22	56.45
8.00	59.13	85.48	88.43	88.50	88.50	88.50	88.49	88.30	73.55	56.81
9.00	59.38	85.63	88.57	88.64	88.65	88.65	88.63	88.44	73.88	57.81
10.00	59.74	86.59	89.59	89.66	89.67	89.67	89.65	89.45	74.50	57.90
11.00	59.98	86.73	89.73	89.80	89.81	89.81	89.79	89.59	74.59	57.72
12.00	60.30	87.25	90.27	90.34	90.36	90.36	90.33	90.13	75.00	57.81
13.00	60.52	87.39	90.41	90.48	90.50	90.50	90.47	90.26	75.18	58.07
14.00	60.77	87.72	90.75	90.83	90.84	90.84	90.81	90.60	75.46	58.34
15.00	60.98	87.86	90.88	90.97	90.98	90.98	90.95	90.74	75.60	58.46
16.00	61.22	88.06	91.09	91.17	91.19	91.19	91.15	90.94	75.80	58.57
17.00	61.42	88.20	91.22	91.31	91.33	91.32	91.29	91.07	76.06	59.45
18.00	61.61	88.34	91.36	91.44	91.46	91.46	91.42	91.21	76.32	59.89
19.00	61.79	88.48	91.49	91.58	91.60	91.60	91.56	91.34	76.37	59.89
20.00	61.97	88.49	91.49	91.58	91.60	91.60	91.56	91.34	76.35	59.53
21.00	62.12	88.61	91.60	91.70	91.72	91.71	91.67	91.45	76.47	59.46
22.00	58.70	59.73	60.54	60.62	60.65	60.64	60.58	60.32	58.40	57.53
22.50	57.65	55.96	55.96	56.02	56.04	56.04	55.98	55.89	56.13	57.64

Table B - 30. Temperature (°C) map of the west side of plate 1T2 at EOC 143A (100.9 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.33	51.79	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.31
1.00	53.65	52.38	52.48	52.49	52.49	52.49	52.49	52.44	52.37	53.40
2.00	56.82	76.26	78.55	78.60	78.60	78.60	78.60	78.46	67.12	54.87
3.00	57.24	76.48	78.78	78.83	78.83	78.83	78.83	78.67	67.35	54.93
4.00	58.08	80.72	83.35	83.41	83.41	83.41	83.40	83.23	70.17	55.56
5.00	58.40	80.88	83.51	83.56	83.57	83.57	83.56	83.38	70.33	55.68
6.00	59.03	83.45	86.27	86.33	86.34	86.34	86.32	86.14	72.07	56.06
7.00	59.34	83.60	86.42	86.48	86.49	86.49	86.47	86.28	72.23	56.29
8.00	59.92	85.53	88.47	88.54	88.55	88.55	88.53	88.34	73.57	56.64
9.00	60.21	85.68	88.62	88.69	88.70	88.70	88.68	88.48	73.89	58.47
10.00	60.61	86.65	89.65	89.73	89.74	89.74	89.71	89.51	74.53	58.36
11.00	60.88	86.80	89.80	89.88	89.89	89.89	89.86	89.65	74.62	57.74
12.00	61.24	87.32	90.35	90.43	90.44	90.44	90.41	90.20	75.04	57.53
13.00	61.49	87.48	90.50	90.58	90.59	90.59	90.56	90.34	75.23	57.75
14.00	61.77	87.82	90.85	90.93	90.95	90.95	90.91	90.69	75.52	58.13
15.00	62.01	87.97	91.00	91.08	91.10	91.10	91.06	90.83	75.67	58.30
16.00	62.28	88.19	91.21	91.30	91.32	91.32	91.28	91.05	75.87	58.40
17.00	62.50	88.34	91.36	91.45	91.47	91.47	91.42	91.19	76.14	60.02
18.00	62.71	88.48	91.50	91.60	91.62	91.61	91.57	91.34	76.40	60.72
19.00	62.91	88.63	91.65	91.75	91.77	91.76	91.71	91.48	76.47	60.60
20.00	63.10	88.66	91.66	91.76	91.78	91.78	91.73	91.49	76.46	59.60
21.00	63.25	88.79	91.79	91.89	91.91	91.91	91.85	91.61	76.59	59.21
22.00	59.88	59.88	60.69	60.78	60.81	60.81	60.73	60.46	58.52	57.46
22.50	58.89	56.12	56.13	56.19	56.22	56.21	56.14	56.03	56.24	58.80

Table B - 31. Temperature (°C) map of the east side of plate 1B5 at EOC 143A (100.9 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	57.69	56.00	56.00	56.06	56.09	56.08	56.02	55.93	56.13	57.47
23.00	58.78	59.72	60.50	60.58	60.61	60.60	60.54	60.29	58.42	57.62
24.00	62.40	88.45	91.39	91.48	91.51	91.50	91.46	91.24	76.48	59.76
25.00	62.57	88.68	91.63	91.72	91.75	91.74	91.69	91.48	76.71	60.11
26.00	62.75	89.19	92.17	92.27	92.29	92.29	92.24	92.02	77.21	60.82
27.00	62.86	89.33	92.31	92.41	92.44	92.43	92.38	92.16	77.46	61.13
28.00	62.99	89.62	92.61	92.71	92.73	92.73	92.67	92.45	77.59	60.96
29.00	63.09	89.76	92.75	92.86	92.88	92.88	92.82	92.59	77.64	60.60
30.00	63.16	89.75	92.74	92.84	92.86	92.86	92.80	92.57	77.68	60.51
31.00	63.23	89.88	92.86	92.97	92.99	92.99	92.93	92.70	77.83	60.65
32.00	63.28	89.87	92.84	92.94	92.97	92.97	92.91	92.68	77.86	60.63
33.00	63.34	89.99	92.97	93.07	93.10	93.09	93.03	92.80	77.96	60.62
34.00	63.33	89.73	92.68	92.79	92.82	92.81	92.75	92.51	77.84	60.83
35.00	63.36	89.85	92.80	92.91	92.94	92.94	92.87	92.64	78.04	61.32
36.00	63.33	89.57	92.49	92.60	92.63	92.62	92.56	92.32	77.99	61.60
37.00	63.35	89.68	92.61	92.72	92.75	92.74	92.68	92.44	78.00	61.35
38.00	63.12	88.27	91.08	91.20	91.23	91.22	91.15	90.91	77.02	60.76
39.00	63.11	88.37	91.19	91.30	91.33	91.33	91.26	91.02	77.11	60.59
40.00	62.84	86.68	89.36	89.47	89.50	89.50	89.43	89.19	76.04	60.48
41.00	62.80	86.77	89.45	89.57	89.60	89.59	89.52	89.28	76.13	60.52
42.00	62.40	84.44	86.94	87.06	87.09	87.08	87.01	86.77	74.61	60.12
43.00	62.33	84.51	87.02	87.13	87.16	87.16	87.08	86.84	74.68	60.22
44.00	59.12	59.67	60.01	60.12	60.16	60.15	60.05	59.83	59.29	58.57
45.00	58.55	59.14	59.31	59.40	59.44	59.43	59.33	59.18	58.94	58.29

Table B - 32. Temperature (°C) map of the west side of plate 1B5 at EOC 143A (100.9 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	58.85	56.16	56.17	56.23	56.26	56.26	56.19	56.08	56.24	58.27
23.00	59.97	59.88	60.67	60.76	60.78	60.78	60.70	60.44	58.55	57.55
24.00	63.54	88.67	91.61	91.72	91.74	91.74	91.68	91.44	76.63	59.52
25.00	63.73	88.91	91.87	91.97	91.99	91.99	91.93	91.69	76.87	60.19
26.00	63.89	89.44	92.42	92.53	92.55	92.55	92.48	92.24	77.37	61.55
27.00	64.00	89.59	92.58	92.68	92.71	92.70	92.64	92.39	77.62	61.98
28.00	64.12	89.89	92.88	92.99	93.02	93.01	92.94	92.69	77.77	61.56
29.00	64.21	90.05	93.04	93.15	93.18	93.18	93.10	92.85	77.84	60.65
30.00	64.26	90.05	93.04	93.15	93.18	93.17	93.10	92.84	77.88	60.30
31.00	64.32	90.19	93.18	93.29	93.32	93.31	93.24	92.98	78.04	60.38
32.00	64.34	90.18	93.17	93.28	93.31	93.30	93.22	92.97	78.08	60.24
33.00	64.38	90.32	93.30	93.42	93.45	93.44	93.36	93.10	78.19	60.26
34.00	64.34	90.07	93.03	93.15	93.18	93.17	93.09	92.83	78.08	60.81
35.00	64.35	90.20	93.16	93.28	93.31	93.31	93.22	92.96	78.29	61.83
36.00	64.29	89.93	92.86	92.98	93.01	93.00	92.92	92.65	78.24	62.37
37.00	64.27	90.05	92.99	93.11	93.14	93.13	93.04	92.78	78.26	61.84
38.00	64.02	88.65	91.48	91.60	91.63	91.62	91.53	91.26	77.29	60.70
39.00	63.97	88.76	91.59	91.72	91.75	91.74	91.65	91.37	77.39	60.26
40.00	63.66	87.08	89.78	89.90	89.93	89.92	89.83	89.56	76.33	60.12
41.00	63.58	87.17	89.88	90.00	90.04	90.02	89.93	89.65	76.42	60.24
42.00	63.14	84.86	87.38	87.50	87.54	87.53	87.43	87.16	74.91	59.77
43.00	63.01	84.94	87.46	87.58	87.62	87.61	87.51	87.23	74.98	60.11
44.00	59.80	60.01	60.37	60.48	60.52	60.51	60.39	60.14	59.56	58.92
45.00	59.19	59.48	59.66	59.76	59.81	59.79	59.67	59.50	59.21	58.71

Table B - 33. Temperature (°C) map of the east side of plate 1T2 at BOC 143B (100.9 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.09	51.80	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.13
1.00	53.34	52.25	52.29	52.30	52.30	52.30	52.30	52.27	52.31	53.23
2.00	56.78	69.62	71.30	71.33	71.34	71.33	71.33	71.21	63.04	55.42
3.00	57.20	69.85	71.53	71.57	71.57	71.57	71.56	71.44	63.29	55.69
4.00	58.07	72.47	74.35	74.40	74.40	74.40	74.39	74.26	65.07	56.41
5.00	58.41	72.68	74.56	74.61	74.62	74.62	74.60	74.46	65.29	56.66
6.00	59.32	75.17	77.24	77.30	77.31	77.31	77.29	77.13	66.98	57.29
7.00	59.66	75.41	77.47	77.53	77.55	77.55	77.52	77.36	67.23	57.55
8.00	60.59	77.54	79.75	79.83	79.84	79.84	79.81	79.64	68.74	58.22
9.00	60.92	77.80	80.01	80.09	80.10	80.10	80.07	79.89	69.17	59.30
10.00	61.63	78.88	81.15	81.24	81.26	81.26	81.21	81.03	69.93	59.67
11.00	61.97	79.16	81.43	81.52	81.54	81.54	81.49	81.30	70.14	59.57
12.00	62.85	81.14	83.53	83.63	83.65	83.65	83.60	83.39	71.56	60.07
13.00	63.19	81.44	83.83	83.93	83.96	83.96	83.90	83.69	71.89	60.42
14.00	63.66	81.61	83.99	84.10	84.13	84.13	84.06	83.84	72.14	60.89
15.00	64.00	81.92	84.30	84.41	84.45	84.45	84.37	84.15	72.44	61.11
16.00	64.57	82.90	85.33	85.45	85.49	85.49	85.41	85.17	73.21	61.45
17.00	64.90	83.23	85.65	85.78	85.83	85.83	85.74	85.50	73.66	62.48
18.00	65.35	83.89	86.35	86.49	86.53	86.53	86.43	86.19	74.32	63.12
19.00	65.69	84.23	86.69	86.83	86.88	86.88	86.78	86.52	74.57	63.25
20.00	66.22	85.08	87.57	87.72	87.77	87.77	87.66	87.40	75.16	63.13
21.00	66.52	85.40	87.89	88.05	88.10	88.10	87.99	87.72	75.48	63.16
22.00	61.63	61.74	62.41	62.56	62.62	62.62	62.48	62.19	60.70	59.92
22.50	59.84	58.81	58.88	59.01	59.08	59.07	58.93	58.77	58.90	59.45

Table B - 34. Temperature (°C) map of the west side of plate 1T2 at BOC 143B (100.9 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.34	51.80	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.33
1.00	53.67	52.25	52.29	52.30	52.30	52.30	52.30	52.26	52.31	53.47
2.00	56.44	69.59	71.27	71.30	71.31	71.31	71.30	71.19	63.02	54.96
3.00	56.87	69.78	71.45	71.49	71.50	71.50	71.49	71.37	63.24	55.05
4.00	57.59	72.35	74.22	74.27	74.27	74.27	74.26	74.13	64.97	55.67
5.00	57.94	72.49	74.37	74.41	74.42	74.42	74.41	74.27	65.14	55.83
6.00	58.68	74.92	76.98	77.03	77.03	77.03	77.02	76.87	66.77	56.34
7.00	59.06	75.09	77.15	77.20	77.20	77.20	77.19	77.04	66.97	56.62
8.00	59.75	77.11	79.31	79.37	79.37	79.37	79.36	79.20	68.38	57.11
9.00	60.08	77.27	79.46	79.52	79.53	79.53	79.51	79.35	68.72	59.01
10.00	60.62	78.26	80.50	80.57	80.58	80.57	80.55	80.38	69.40	59.07
11.00	60.94	78.42	80.66	80.73	80.74	80.74	80.71	80.54	69.51	58.50
12.00	61.63	80.27	82.64	82.71	82.72	82.72	82.69	82.51	70.83	58.52
13.00	61.95	80.45	82.81	82.88	82.89	82.89	82.86	82.68	71.05	58.80
14.00	62.29	80.49	82.83	82.90	82.92	82.91	82.88	82.70	71.19	59.28
15.00	62.59	80.67	83.00	83.07	83.09	83.09	83.05	82.86	71.37	59.51
16.00	63.04	81.50	83.87	83.95	83.96	83.96	83.92	83.73	72.01	59.76
17.00	63.33	81.68	84.04	84.13	84.14	84.14	84.10	83.90	72.33	61.55
18.00	63.68	82.20	84.59	84.67	84.69	84.69	84.64	84.45	72.86	62.37
19.00	63.95	82.39	84.77	84.85	84.87	84.87	84.82	84.62	72.99	62.36
20.00	64.35	83.06	85.47	85.56	85.58	85.58	85.53	85.32	73.43	61.45
21.00	64.57	83.23	85.64	85.73	85.75	85.75	85.69	85.49	73.62	61.09
22.00	61.09	59.96	60.55	60.65	60.69	60.68	60.59	60.36	58.96	58.83
22.50	59.93	56.95	56.94	57.02	57.06	57.05	56.96	56.86	57.07	60.00

Table B - 35. Temperature (°C) map of the east side of plate 1B5 at BOC 143B (100.9 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	59.95	58.86	58.93	59.07	59.13	59.13	58.99	58.82	58.92	59.31
23.00	61.47	61.89	62.56	62.71	62.77	62.77	62.63	62.35	60.84	59.81
24.00	66.11	85.83	88.33	88.49	88.55	88.55	88.42	88.15	75.91	62.90
25.00	66.35	86.15	88.65	88.82	88.88	88.88	88.75	88.47	76.23	63.31
26.00	66.49	86.30	88.80	88.97	89.03	89.03	88.90	88.61	76.53	64.04
27.00	66.66	86.57	89.07	89.25	89.31	89.31	89.17	88.88	76.90	64.37
28.00	66.73	86.30	88.76	88.94	89.01	89.01	88.86	88.57	76.71	64.19
29.00	66.91	86.60	89.06	89.25	89.32	89.31	89.17	88.87	76.90	63.88
30.00	67.00	86.75	89.20	89.39	89.46	89.46	89.31	89.01	77.07	63.79
31.00	67.14	87.01	89.47	89.66	89.73	89.73	89.57	89.27	77.34	63.98
32.00	67.12	86.81	89.24	89.44	89.52	89.51	89.35	89.04	77.29	63.91
33.00	67.25	87.09	89.54	89.75	89.83	89.82	89.65	89.32	77.53	63.97
34.00	67.21	87.12	89.57	89.78	89.86	89.86	89.68	89.35	77.62	64.15
35.00	67.30	87.35	89.83	90.04	90.13	90.12	89.94	89.60	77.94	64.70
36.00	67.02	86.24	88.59	88.81	88.89	88.89	88.70	88.37	77.37	64.78
37.00	67.08	86.46	88.82	89.04	89.13	89.12	88.94	88.60	77.47	64.58
38.00	66.85	85.73	88.01	88.23	88.32	88.31	88.13	87.78	76.97	63.97
39.00	66.88	85.92	88.22	88.45	88.54	88.53	88.34	88.00	77.14	63.82
40.00	66.52	84.75	86.92	87.14	87.23	87.23	87.04	86.71	76.44	63.63
41.00	66.50	84.92	87.11	87.33	87.42	87.41	87.22	86.88	76.60	63.69
42.00	65.98	82.85	84.85	85.06	85.15	85.14	84.96	84.64	75.27	63.19
43.00	65.92	82.99	84.99	85.20	85.28	85.28	85.09	84.77	75.39	63.31
44.00	62.83	64.70	65.10	65.30	65.39	65.38	65.18	64.88	64.23	61.57
45.00	62.21	64.34	64.64	64.83	64.92	64.91	64.71	64.46	63.99	61.22

Table B - 36. Temperature (°C) map of the west side of plate 1B5 at BOC 143B (100.9 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	59.91	57.00	56.99	57.07	57.10	57.09	57.01	56.90	57.09	59.46
23.00	61.09	60.03	60.63	60.72	60.76	60.75	60.67	60.44	59.02	58.83
24.00	64.63	83.36	85.74	85.84	85.86	85.85	85.80	85.59	73.77	61.13
25.00	64.83	83.56	85.95	86.05	86.07	86.07	86.01	85.80	74.00	61.87
26.00	64.96	83.61	85.99	86.09	86.11	86.11	86.04	85.83	74.20	63.29
27.00	65.08	83.78	86.16	86.25	86.28	86.27	86.21	86.00	74.47	63.72
28.00	65.12	83.39	85.73	85.83	85.85	85.85	85.78	85.57	74.19	63.28
29.00	65.25	83.57	85.91	86.01	86.03	86.02	85.96	85.74	74.28	62.37
30.00	65.32	83.60	85.94	86.04	86.06	86.05	85.98	85.77	74.35	62.00
31.00	65.40	83.76	86.09	86.19	86.22	86.21	86.14	85.92	74.53	62.11
32.00	65.37	83.45	85.75	85.85	85.88	85.87	85.79	85.58	74.38	61.94
33.00	65.43	83.61	85.92	86.02	86.05	86.04	85.97	85.74	74.52	62.07
34.00	65.40	83.54	85.83	85.94	85.97	85.96	85.88	85.65	74.52	62.59
35.00	65.43	83.68	85.98	86.09	86.12	86.11	86.03	85.80	74.76	63.65
36.00	65.19	82.45	84.64	84.75	84.78	84.77	84.69	84.46	74.09	64.02
37.00	65.18	82.58	84.78	84.89	84.92	84.91	84.82	84.59	74.12	63.56
38.00	64.98	81.74	83.86	83.97	84.00	83.99	83.90	83.67	73.53	62.42
39.00	64.94	81.86	83.99	84.09	84.13	84.11	84.03	83.79	73.63	61.98
40.00	64.64	80.58	82.60	82.71	82.74	82.72	82.63	82.41	72.85	61.82
41.00	64.56	80.68	82.70	82.81	82.85	82.83	82.74	82.51	72.95	61.95
42.00	64.08	78.48	80.32	80.43	80.46	80.45	80.36	80.13	71.53	61.44
43.00	63.96	78.56	80.41	80.51	80.54	80.53	80.44	80.21	71.61	61.80
44.00	61.34	61.31	61.60	61.72	61.77	61.75	61.63	61.42	60.90	60.79
45.00	60.80	60.95	61.14	61.25	61.29	61.27	61.15	60.99	60.64	60.55

Table B - 37. Temperature (°C) map of the east side of plate 1T2 at MOC 143B (118.9 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.09	51.80	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.13
1.00	53.40	52.29	52.35	52.36	52.36	52.36	52.36	52.32	52.35	53.28
2.00	57.14	71.46	73.30	73.34	73.34	73.34	73.33	73.21	64.22	55.66
3.00	57.58	71.70	73.54	73.59	73.59	73.59	73.58	73.45	64.49	55.95
4.00	58.50	74.41	76.46	76.51	76.51	76.51	76.50	76.36	66.33	56.71
5.00	58.85	74.64	76.68	76.73	76.74	76.74	76.72	76.57	66.57	56.95
6.00	59.68	76.72	78.91	78.98	78.99	78.99	78.96	78.80	68.01	57.54
7.00	60.08	77.00	79.19	79.25	79.27	79.27	79.24	79.07	68.29	57.82
8.00	60.87	78.61	80.90	80.98	80.99	80.99	80.96	80.78	69.46	58.42
9.00	61.21	78.87	81.16	81.24	81.26	81.26	81.22	81.04	69.91	59.51
10.00	61.73	79.25	81.54	81.63	81.65	81.65	81.61	81.42	70.20	59.75
11.00	62.07	79.52	81.82	81.91	81.94	81.93	81.88	81.69	70.40	59.64
12.00	62.79	80.71	83.07	83.17	83.20	83.20	83.14	82.93	71.32	60.03
13.00	63.13	81.01	83.37	83.47	83.50	83.50	83.44	83.23	71.64	60.38
14.00	63.57	81.40	83.76	83.87	83.91	83.91	83.84	83.62	72.02	60.82
15.00	63.90	81.71	84.07	84.19	84.22	84.22	84.14	83.92	72.31	61.03
16.00	64.34	82.22	84.60	84.72	84.76	84.76	84.68	84.44	72.78	61.28
17.00	64.65	82.54	84.91	85.04	85.09	85.08	85.00	84.76	73.21	62.29
18.00	65.07	82.99	85.38	85.52	85.56	85.56	85.47	85.22	73.73	62.92
19.00	65.40	83.32	85.70	85.85	85.90	85.89	85.79	85.54	73.97	63.04
20.00	65.74	83.46	85.83	85.98	86.03	86.03	85.92	85.66	74.09	62.78
21.00	65.99	83.76	86.13	86.29	86.34	86.34	86.22	85.96	74.38	62.78
22.00	61.45	61.50	62.13	62.28	62.34	62.33	62.20	61.92	60.53	59.78
22.50	59.80	58.76	58.83	58.96	59.02	59.01	58.88	58.72	58.85	59.41

Table B - 38. Temperature (°C) map of the west side of plate 1T2 at MOC 143B (118.9 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.34	51.80	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.33
1.00	53.72	52.29	52.34	52.35	52.35	52.35	52.35	52.31	52.34	53.51
2.00	56.75	71.43	73.27	73.31	73.31	73.31	73.30	73.18	64.20	55.15
3.00	57.19	71.63	73.47	73.51	73.51	73.51	73.50	73.37	64.43	55.24
4.00	57.94	74.28	76.32	76.37	76.37	76.37	76.36	76.22	66.23	55.89
5.00	58.30	74.44	76.47	76.52	76.53	76.53	76.52	76.37	66.40	56.05
6.00	58.97	76.45	78.63	78.68	78.69	78.69	78.68	78.52	67.78	56.53
7.00	59.36	76.63	78.80	78.86	78.87	78.87	78.85	78.69	67.98	56.81
8.00	59.98	78.15	80.43	80.49	80.50	80.49	80.48	80.31	69.07	57.26
9.00	60.31	78.31	80.58	80.65	80.66	80.65	80.63	80.46	69.43	59.18
10.00	60.71	78.59	80.86	80.92	80.93	80.93	80.91	80.73	69.64	59.14
11.00	61.03	78.75	81.01	81.08	81.09	81.09	81.06	80.89	69.75	58.55
12.00	61.59	79.81	82.14	82.21	82.22	82.22	82.19	82.01	70.55	58.50
13.00	61.90	79.98	82.30	82.37	82.39	82.39	82.35	82.17	70.77	58.78
14.00	62.25	80.25	82.57	82.64	82.66	82.65	82.62	82.43	71.04	59.25
15.00	62.55	80.42	82.73	82.81	82.83	82.83	82.79	82.60	71.22	59.48
16.00	62.91	80.79	83.11	83.19	83.21	83.20	83.16	82.97	71.55	59.66
17.00	63.18	80.97	83.28	83.36	83.38	83.38	83.33	83.14	71.87	61.43
18.00	63.50	81.29	83.60	83.69	83.71	83.70	83.66	83.46	72.27	62.23
19.00	63.77	81.47	83.78	83.86	83.88	83.88	83.83	83.63	72.38	62.21
20.00	64.02	81.44	83.73	83.82	83.84	83.84	83.78	83.58	72.36	61.22
21.00	64.22	81.60	83.88	83.97	84.00	83.99	83.94	83.73	72.53	60.84
22.00	60.98	59.75	60.30	60.40	60.44	60.43	60.34	60.12	58.81	58.74
22.50	59.90	56.94	56.92	57.00	57.04	57.03	56.94	56.84	57.06	59.97

Table B - 39. Temperature (°C) map of the east side of plate 1B5 at MOC 143B (118.9 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	59.89	58.80	58.88	59.01	59.07	59.07	58.93	58.77	58.87	59.26
23.00	61.30	61.60	62.23	62.38	62.44	62.43	62.30	62.02	60.63	59.68
24.00	65.59	83.89	86.24	86.40	86.46	86.46	86.33	86.07	74.61	62.54
25.00	65.84	84.23	86.58	86.75	86.81	86.80	86.68	86.40	74.94	62.95
26.00	66.03	84.75	87.13	87.30	87.36	87.35	87.22	86.94	75.47	63.70
27.00	66.21	85.01	87.39	87.56	87.63	87.62	87.49	87.21	75.83	64.04
28.00	66.37	85.20	87.58	87.76	87.82	87.82	87.68	87.39	75.94	63.92
29.00	66.55	85.49	87.87	88.05	88.12	88.11	87.97	87.68	76.12	63.61
30.00	66.67	85.78	88.17	88.35	88.42	88.41	88.27	87.98	76.38	63.55
31.00	66.80	86.03	88.42	88.61	88.68	88.67	88.52	88.23	76.64	63.73
32.00	66.85	86.15	88.53	88.72	88.79	88.79	88.64	88.34	76.79	63.71
33.00	66.97	86.39	88.78	88.97	89.04	89.03	88.88	88.58	77.00	63.75
34.00	66.88	86.09	88.44	88.63	88.70	88.70	88.54	88.24	76.88	63.92
35.00	66.98	86.31	88.67	88.88	88.96	88.95	88.78	88.47	77.19	64.46
36.00	66.96	86.55	88.93	89.14	89.22	89.21	89.04	88.71	77.49	64.72
37.00	67.03	86.77	89.17	89.38	89.46	89.46	89.28	88.95	77.60	64.53
38.00	66.86	86.40	88.77	88.98	89.07	89.06	88.88	88.54	77.34	63.95
39.00	66.90	86.61	88.99	89.20	89.29	89.28	89.10	88.76	77.52	63.81
40.00	66.58	85.62	87.89	88.11	88.20	88.19	88.01	87.67	76.94	63.66
41.00	66.57	85.80	88.09	88.31	88.39	88.39	88.20	87.86	77.11	63.72
42.00	66.09	83.92	86.01	86.22	86.30	86.29	86.12	85.80	75.90	63.25
43.00	66.04	84.06	86.16	86.37	86.45	86.45	86.26	85.94	76.03	63.37
44.00	62.74	64.54	64.95	65.14	65.23	65.22	65.02	64.73	64.07	61.50
45.00	62.09	64.16	64.46	64.64	64.72	64.71	64.52	64.28	63.82	61.12

Table B - 40. Temperature (°C) map of the west side of plate 1B5 at MOC 143B (118.9 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	59.89	56.98	56.97	57.04	57.08	57.07	56.99	56.88	57.07	59.44
23.00	60.97	59.79	60.33	60.43	60.46	60.45	60.37	60.15	58.85	58.74
24.00	64.25	81.45	83.69	83.78	83.80	83.80	83.74	83.54	72.51	60.88
25.00	64.46	81.68	83.93	84.02	84.04	84.04	83.98	83.77	72.74	61.62
26.00	64.63	82.11	84.38	84.47	84.50	84.49	84.43	84.22	73.19	63.03
27.00	64.76	82.27	84.54	84.64	84.66	84.65	84.59	84.38	73.46	63.46
28.00	64.88	82.37	84.63	84.73	84.75	84.74	84.68	84.47	73.49	63.08
29.00	65.00	82.54	84.81	84.90	84.93	84.92	84.85	84.64	73.58	62.18
30.00	65.08	82.73	85.00	85.10	85.12	85.12	85.05	84.83	73.75	61.83
31.00	65.16	82.88	85.15	85.25	85.28	85.27	85.20	84.98	73.92	61.94
32.00	65.19	82.90	85.16	85.26	85.29	85.28	85.20	84.99	73.98	61.80
33.00	65.25	83.06	85.32	85.42	85.45	85.44	85.37	85.15	74.12	61.93
34.00	65.17	82.63	84.85	84.95	84.98	84.97	84.89	84.67	73.89	62.42
35.00	65.19	82.76	84.99	85.09	85.12	85.11	85.03	84.81	74.12	63.47
36.00	65.17	82.91	85.14	85.25	85.28	85.26	85.18	84.96	74.34	63.98
37.00	65.18	83.04	85.28	85.39	85.42	85.41	85.32	85.10	74.38	63.53
38.00	65.03	82.58	84.77	84.88	84.91	84.90	84.82	84.59	74.03	62.42
39.00	64.99	82.70	84.90	85.01	85.04	85.03	84.94	84.71	74.14	61.99
40.00	64.73	81.62	83.73	83.84	83.87	83.86	83.77	83.54	73.48	61.85
41.00	64.66	81.72	83.84	83.95	83.98	83.97	83.88	83.65	73.59	61.99
42.00	64.22	79.71	81.66	81.77	81.80	81.78	81.70	81.47	72.29	61.50
43.00	64.09	79.80	81.75	81.86	81.89	81.87	81.78	81.56	72.37	61.86
44.00	61.30	61.26	61.55	61.67	61.72	61.70	61.58	61.36	60.84	60.75
45.00	60.73	60.87	61.05	61.16	61.21	61.19	61.07	60.90	60.57	60.48

Table B - 41. Temperature (°C) map of the east side of plate 1T2 at MOC 143B (138.9 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.09	51.80	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.13
1.00	53.44	52.31	52.37	52.38	52.38	52.38	52.38	52.34	52.36	53.31
2.00	57.35	72.13	74.02	74.06	74.07	74.07	74.06	73.93	64.66	55.81
3.00	57.80	72.38	74.28	74.32	74.33	74.33	74.32	74.18	64.94	56.10
4.00	58.72	75.27	77.38	77.43	77.44	77.44	77.43	77.28	66.90	56.86
5.00	59.06	75.49	77.61	77.66	77.67	77.67	77.65	77.50	67.13	57.10
6.00	59.78	76.77	78.97	79.03	79.04	79.04	79.02	78.85	68.06	57.61
7.00	60.12	77.02	79.21	79.27	79.29	79.29	79.26	79.09	68.32	57.87
8.00	60.87	78.42	80.69	80.77	80.79	80.79	80.75	80.57	69.35	58.42
9.00	61.20	78.68	80.95	81.04	81.06	81.05	81.02	80.83	69.80	59.51
10.00	61.67	78.69	80.94	81.02	81.04	81.04	81.00	80.81	69.85	59.71
11.00	62.00	78.96	81.21	81.30	81.32	81.32	81.27	81.07	70.05	59.60
12.00	62.59	79.71	81.98	82.08	82.11	82.11	82.05	81.85	70.67	59.90
13.00	62.91	79.99	82.27	82.38	82.41	82.41	82.34	82.13	70.98	60.24
14.00	63.30	80.11	82.37	82.48	82.51	82.51	82.44	82.22	71.18	60.64
15.00	63.62	80.40	82.66	82.78	82.82	82.81	82.74	82.51	71.46	60.84
16.00	63.97	80.40	82.63	82.75	82.80	82.79	82.71	82.48	71.58	61.04
17.00	64.27	80.70	82.93	83.06	83.11	83.10	83.01	82.78	72.00	62.03
18.00	64.55	80.69	82.89	83.03	83.08	83.07	82.98	82.74	72.21	62.54
19.00	64.83	80.99	83.20	83.34	83.39	83.38	83.28	83.04	72.42	62.63
20.00	65.22	81.46	83.67	83.81	83.87	83.86	83.76	83.50	72.75	62.42
21.00	65.47	81.75	83.96	84.11	84.16	84.16	84.05	83.79	73.03	62.42
22.00	61.24	61.13	61.70	61.84	61.90	61.90	61.77	61.51	60.24	59.62
22.50	59.69	58.61	58.66	58.79	58.85	58.85	58.71	58.56	58.72	59.32

Table B - 42. Temperature (°C) map of the west side of plate 1T2 at MOC 143B (138.9 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.34	51.80	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.33
1.00	53.74	52.31	52.36	52.37	52.37	52.37	52.37	52.33	52.36	53.53
2.00	56.89	72.10	73.99	74.03	74.03	74.03	74.03	73.90	64.64	55.25
3.00	57.34	72.30	74.20	74.24	74.24	74.24	74.23	74.10	64.87	55.35
4.00	58.11	75.13	77.24	77.28	77.29	77.29	77.28	77.14	66.78	56.00
5.00	58.46	75.28	77.39	77.44	77.44	77.44	77.43	77.28	66.96	56.16
6.00	59.02	76.48	78.67	78.72	78.73	78.72	78.71	78.56	67.82	56.57
7.00	59.36	76.64	78.82	78.87	78.88	78.88	78.86	78.70	68.00	56.83
8.00	59.96	77.94	80.20	80.26	80.26	80.26	80.24	80.08	68.94	57.26
9.00	60.29	78.10	80.35	80.41	80.42	80.42	80.40	80.23	69.30	59.18
10.00	60.64	78.00	80.22	80.28	80.29	80.29	80.27	80.10	69.26	59.10
11.00	60.95	78.16	80.37	80.44	80.45	80.45	80.42	80.25	69.37	58.51
12.00	61.42	78.78	81.02	81.08	81.10	81.10	81.07	80.89	69.88	58.40
13.00	61.72	78.94	81.18	81.25	81.26	81.26	81.23	81.05	70.09	58.67
14.00	62.03	78.93	81.14	81.21	81.23	81.23	81.19	81.01	70.18	59.11
15.00	62.31	79.10	81.30	81.38	81.39	81.39	81.35	81.17	70.35	59.33
16.00	62.59	78.95	81.11	81.19	81.21	81.21	81.16	80.98	70.34	59.47
17.00	62.86	79.11	81.27	81.35	81.37	81.37	81.32	81.14	70.65	61.21
18.00	63.08	78.96	81.09	81.17	81.19	81.19	81.14	80.95	70.73	61.92
19.00	63.32	79.13	81.25	81.33	81.36	81.35	81.30	81.11	70.83	61.88
20.00	63.61	79.44	81.56	81.65	81.67	81.66	81.61	81.42	71.03	60.95
21.00	63.81	79.59	81.71	81.80	81.82	81.82	81.76	81.57	71.19	60.58
22.00	60.81	59.40	59.90	60.00	60.03	60.02	59.94	59.73	58.55	58.62
22.50	59.81	56.82	56.79	56.87	56.90	56.89	56.81	56.72	56.95	59.88

Table B - 43. Temperature (°C) map of the east side of plate 1B5 at MOC 143B (138.9 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	59.78	58.65	58.71	58.84	58.90	58.89	58.76	58.61	58.72	59.18
23.00	61.09	61.22	61.79	61.94	62.00	61.99	61.86	61.60	60.34	59.52
24.00	65.07	81.85	84.03	84.19	84.25	84.24	84.12	83.86	73.22	62.17
25.00	65.30	82.15	84.35	84.51	84.57	84.56	84.44	84.17	73.53	62.58
26.00	65.49	82.58	84.79	84.95	85.02	85.01	84.88	84.62	74.00	63.32
27.00	65.67	82.83	85.04	85.21	85.27	85.27	85.14	84.87	74.34	63.64
28.00	65.87	83.43	85.67	85.84	85.90	85.90	85.77	85.49	74.70	63.55
29.00	66.03	83.70	85.95	86.12	86.18	86.18	86.04	85.76	74.87	63.25
30.00	66.12	83.71	85.94	86.11	86.18	86.17	86.03	85.75	74.94	63.17
31.00	66.25	83.94	86.18	86.36	86.42	86.42	86.28	85.99	75.20	63.35
32.00	66.34	84.36	86.62	86.80	86.87	86.86	86.72	86.43	75.53	63.36
33.00	66.46	84.60	86.85	87.04	87.11	87.10	86.95	86.66	75.74	63.40
34.00	66.57	85.26	87.56	87.75	87.82	87.81	87.66	87.37	76.24	63.69
35.00	66.66	85.49	87.79	87.98	88.05	88.04	87.89	87.59	76.55	64.22
36.00	66.55	85.23	87.51	87.70	87.77	87.77	87.61	87.31	76.53	64.41
37.00	66.62	85.45	87.73	87.92	87.99	87.99	87.83	87.53	76.64	64.23
38.00	66.58	85.69	87.98	88.18	88.26	88.25	88.08	87.78	76.77	63.75
39.00	66.62	85.89	88.19	88.40	88.48	88.48	88.30	87.98	76.95	63.61
40.00	66.36	85.15	87.38	87.58	87.66	87.66	87.48	87.17	76.53	63.50
41.00	66.36	85.33	87.57	87.78	87.86	87.86	87.68	87.36	76.70	63.56
42.00	65.96	84.07	86.19	86.39	86.47	86.46	86.30	85.98	75.89	63.14
43.00	65.91	84.21	86.35	86.55	86.62	86.62	86.45	86.14	76.02	63.27
44.00	62.52	64.19	64.59	64.77	64.85	64.84	64.66	64.37	63.74	61.33
45.00	61.85	63.80	64.08	64.25	64.34	64.32	64.14	63.91	63.47	60.93

Table B - 44. Temperature (°C) map of the west side of plate 1B5 at MOC 143B (138.9 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	59.80	56.86	56.83	56.91	56.94	56.93	56.85	56.76	56.96	59.36
23.00	60.80	59.44	59.93	60.02	60.06	60.05	59.96	59.76	58.59	58.62
24.00	63.83	79.42	81.50	81.59	81.61	81.60	81.55	81.36	71.15	60.61
25.00	64.03	79.63	81.72	81.81	81.83	81.83	81.77	81.57	71.37	61.33
26.00	64.19	79.98	82.08	82.17	82.19	82.18	82.12	81.93	71.76	62.71
27.00	64.32	80.13	82.24	82.33	82.35	82.34	82.28	82.08	72.02	63.12
28.00	64.47	80.64	82.77	82.87	82.89	82.88	82.82	82.62	72.31	62.78
29.00	64.59	80.81	82.94	83.03	83.06	83.05	82.98	82.78	72.39	61.90
30.00	64.63	80.72	82.83	82.92	82.95	82.94	82.87	82.67	72.38	61.54
31.00	64.71	80.86	82.98	83.07	83.10	83.09	83.02	82.82	72.55	61.65
32.00	64.77	81.19	83.33	83.42	83.45	83.44	83.37	83.16	72.81	61.53
33.00	64.83	81.35	83.49	83.58	83.61	83.60	83.53	83.32	72.94	61.67
34.00	64.91	81.91	84.08	84.18	84.20	84.19	84.12	83.91	73.35	62.23
35.00	64.93	82.05	84.22	84.32	84.34	84.33	84.26	84.05	73.58	63.26
36.00	64.84	81.70	83.84	83.94	83.97	83.95	83.88	83.67	73.48	63.71
37.00	64.83	81.83	83.97	84.07	84.10	84.09	84.01	83.80	73.51	63.27
38.00	64.79	81.98	84.14	84.24	84.26	84.25	84.17	83.96	73.57	62.25
39.00	64.76	82.10	84.26	84.37	84.39	84.38	84.30	84.08	73.68	61.83
40.00	64.53	81.27	83.36	83.46	83.49	83.48	83.40	83.18	73.18	61.72
41.00	64.46	81.38	83.48	83.58	83.61	83.59	83.51	83.29	73.29	61.85
42.00	64.11	80.00	81.99	82.09	82.12	82.10	82.02	81.80	72.39	61.41
43.00	63.99	80.09	82.08	82.18	82.21	82.20	82.11	81.89	72.48	61.78
44.00	61.13	61.00	61.29	61.40	61.45	61.43	61.31	61.10	60.60	60.60
45.00	60.53	60.60	60.77	60.88	60.92	60.90	60.78	60.63	60.32	60.32

Table B - 45. Temperature (°C) map of the east side of plate 1T2 at EOC 143B (158.2 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.09	51.80	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.13
1.00	53.41	52.32	52.38	52.39	52.39	52.39	52.39	52.35	52.36	53.28
2.00	57.25	72.64	74.58	74.62	74.63	74.62	74.62	74.49	64.96	55.72
3.00	57.68	72.89	74.83	74.88	74.88	74.88	74.87	74.74	65.23	55.99
4.00	58.56	75.93	78.10	78.16	78.16	78.16	78.15	78.00	67.29	56.71
5.00	58.89	76.14	78.32	78.37	78.38	78.38	78.37	78.21	67.51	56.94
6.00	59.52	77.57	79.84	79.90	79.91	79.91	79.89	79.72	68.52	57.38
7.00	59.88	77.82	80.09	80.16	80.17	80.17	80.15	79.97	68.79	57.64
8.00	60.52	79.43	81.81	81.88	81.90	81.89	81.86	81.68	69.93	58.11
9.00	60.84	79.66	82.04	82.12	82.14	82.14	82.10	81.91	70.35	59.18
10.00	61.22	79.73	82.09	82.18	82.20	82.19	82.15	81.96	70.43	59.31
11.00	61.52	79.97	82.33	82.42	82.44	82.44	82.40	82.20	70.60	59.18
12.00	62.02	80.85	83.26	83.35	83.38	83.37	83.32	83.12	71.28	59.40
13.00	62.31	81.10	83.51	83.61	83.63	83.63	83.57	83.36	71.56	59.72
14.00	62.63	81.15	83.53	83.63	83.66	83.66	83.60	83.38	71.70	60.06
15.00	62.91	81.40	83.78	83.89	83.92	83.92	83.85	83.63	71.94	60.24
16.00	63.20	81.51	83.87	83.98	84.02	84.02	83.94	83.72	72.11	60.38
17.00	63.46	81.76	84.12	84.24	84.28	84.28	84.20	83.97	72.49	61.34
18.00	63.67	81.69	84.02	84.14	84.18	84.18	84.10	83.87	72.63	61.79
19.00	63.92	81.94	84.27	84.40	84.44	84.44	84.35	84.11	72.80	61.86
20.00	64.22	82.22	84.56	84.69	84.73	84.73	84.64	84.40	72.99	61.58
21.00	64.43	82.46	84.79	84.93	84.97	84.97	84.87	84.63	73.22	61.55
22.00	60.55	60.63	61.23	61.36	61.41	61.40	61.29	61.04	59.68	59.07
22.50	59.19	57.92	57.95	58.06	58.11	58.11	58.00	57.86	58.05	58.91

Table B - 46. Temperature (°C) map of the west side of plate 1T2 at EOC 143B (158.2 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
0.125	52.34	51.80	51.77	51.77	51.77	51.77	51.77	51.77	51.85	52.33
1.00	53.74	52.32	52.38	52.39	52.39	52.39	52.39	52.34	52.36	53.52
2.00	56.89	72.61	74.55	74.59	74.60	74.60	74.59	74.46	64.94	55.21
3.00	57.34	72.82	74.76	74.80	74.81	74.81	74.80	74.66	65.18	55.31
4.00	58.10	75.81	77.98	78.03	78.03	78.03	78.02	77.88	67.19	55.95
5.00	58.45	75.96	78.13	78.18	78.19	78.19	78.18	78.02	67.36	56.09
6.00	58.99	77.32	79.58	79.64	79.64	79.64	79.63	79.47	68.31	56.47
7.00	59.36	77.49	79.75	79.81	79.82	79.81	79.80	79.63	68.51	56.74
8.00	59.92	79.02	81.39	81.45	81.46	81.46	81.44	81.27	69.59	57.13
9.00	60.24	79.18	81.54	81.60	81.61	81.61	81.59	81.42	69.93	59.03
10.00	60.56	79.17	81.50	81.57	81.58	81.58	81.56	81.38	69.94	58.92
11.00	60.86	79.32	81.66	81.72	81.74	81.73	81.71	81.53	70.04	58.32
12.00	61.31	80.11	82.48	82.55	82.56	82.56	82.53	82.35	70.64	58.17
13.00	61.60	80.27	82.64	82.71	82.72	82.72	82.69	82.50	70.84	58.43
14.00	61.87	80.22	82.56	82.64	82.65	82.65	82.61	82.43	70.90	58.84
15.00	62.14	80.38	82.72	82.79	82.81	82.81	82.77	82.58	71.06	59.04
16.00	62.40	80.38	82.69	82.77	82.79	82.79	82.75	82.55	71.14	59.16
17.00	62.65	80.54	82.85	82.93	82.95	82.94	82.90	82.71	71.43	60.86
18.00	62.84	80.37	82.65	82.73	82.75	82.75	82.70	82.50	71.49	61.54
19.00	63.06	80.52	82.80	82.88	82.90	82.90	82.85	82.65	71.58	61.48
20.00	63.31	80.70	82.97	83.06	83.08	83.08	83.03	82.83	71.68	60.52
21.00	63.49	80.85	83.11	83.20	83.22	83.22	83.16	82.96	71.83	60.14
22.00	60.53	59.34	59.88	59.97	60.00	60.00	59.92	59.70	58.41	58.31
22.50	59.57	56.58	56.56	56.62	56.66	56.65	56.57	56.48	56.72	59.61

Table B - 47. Temperature (°C) map of the east side of plate 1B5 at EOC 143B (158.2 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	59.27	57.96	58.00	58.11	58.16	58.15	58.04	57.91	58.06	58.76
23.00	60.47	60.70	61.29	61.42	61.47	61.46	61.35	61.10	59.76	59.03
24.00	64.22	82.53	84.83	84.97	85.02	85.02	84.92	84.67	73.39	61.47
25.00	64.44	82.81	85.12	85.26	85.31	85.31	85.21	84.96	73.67	61.86
26.00	64.64	83.27	85.60	85.75	85.80	85.80	85.69	85.44	74.15	62.59
27.00	64.81	83.49	85.82	85.97	86.02	86.02	85.91	85.65	74.46	62.91
28.00	65.00	84.15	86.52	86.67	86.72	86.71	86.60	86.35	74.86	62.82
29.00	65.15	84.38	86.75	86.90	86.96	86.95	86.84	86.58	74.99	62.50
30.00	65.22	84.22	86.57	86.72	86.78	86.77	86.66	86.39	74.95	62.41
31.00	65.33	84.42	86.77	86.93	86.99	86.98	86.86	86.60	75.17	62.58
32.00	65.44	84.76	87.12	87.28	87.33	87.33	87.21	86.94	75.44	62.60
33.00	65.55	84.98	87.35	87.51	87.57	87.56	87.44	87.17	75.63	62.65
34.00	65.66	85.54	87.94	88.10	88.16	88.16	88.03	87.76	76.07	62.94
35.00	65.74	85.74	88.14	88.31	88.36	88.36	88.23	87.96	76.34	63.45
36.00	65.66	85.32	87.68	87.85	87.91	87.90	87.77	87.49	76.22	63.67
37.00	65.72	85.51	87.87	88.04	88.10	88.10	87.96	87.68	76.30	63.47
38.00	65.70	85.57	87.94	88.10	88.17	88.16	88.03	87.74	76.32	63.02
39.00	65.73	85.75	88.12	88.29	88.35	88.35	88.21	87.93	76.47	62.88
40.00	65.48	84.74	87.02	87.19	87.26	87.25	87.11	86.82	75.87	62.78
41.00	65.48	84.90	87.19	87.36	87.42	87.42	87.28	86.99	76.03	62.84
42.00	65.10	83.45	85.61	85.79	85.85	85.85	85.70	85.42	75.10	62.44
43.00	65.05	83.59	85.75	85.93	85.99	85.99	85.84	85.55	75.22	62.56
44.00	61.66	62.95	63.32	63.48	63.55	63.54	63.38	63.12	62.54	60.64
45.00	61.00	62.54	62.78	62.93	63.00	62.99	62.83	62.63	62.25	60.25

Table B - 48. Temperature (°C) map of the west side of plate 1B5 at EOC 143B (158.2 EFPD cumulative).

Length of Plate (in)	Width of Plate (inches)									
	0.05	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.24
22.625	59.55	56.62	56.59	56.66	56.70	56.69	56.61	56.52	56.73	59.09
23.00	60.55	59.37	59.90	59.99	60.02	60.01	59.94	59.73	58.44	58.34
24.00	63.59	80.74	82.97	83.06	83.08	83.07	83.02	82.82	71.85	60.25
25.00	63.79	80.96	83.19	83.28	83.31	83.30	83.24	83.04	72.07	60.96
26.00	63.95	81.37	83.62	83.71	83.73	83.73	83.67	83.47	72.50	62.32
27.00	64.07	81.52	83.77	83.87	83.89	83.88	83.82	83.62	72.75	62.74
28.00	64.24	82.12	84.41	84.50	84.53	84.52	84.46	84.25	73.10	62.39
29.00	64.34	82.28	84.57	84.66	84.69	84.68	84.62	84.41	73.17	61.51
30.00	64.36	82.06	84.32	84.41	84.44	84.43	84.36	84.15	73.07	61.15
31.00	64.43	82.20	84.46	84.55	84.58	84.57	84.50	84.29	73.23	61.24
32.00	64.50	82.46	84.74	84.83	84.86	84.85	84.78	84.57	73.45	61.14
33.00	64.55	82.62	84.89	84.99	85.02	85.01	84.94	84.72	73.57	61.26
34.00	64.63	83.12	85.43	85.52	85.55	85.54	85.47	85.25	73.95	61.82
35.00	64.65	83.25	85.56	85.66	85.69	85.68	85.60	85.38	74.17	62.84
36.00	64.54	82.76	85.03	85.13	85.15	85.14	85.07	84.85	73.99	63.30
37.00	64.54	82.89	85.16	85.26	85.28	85.27	85.20	84.98	74.02	62.85
38.00	64.49	82.88	85.15	85.25	85.28	85.26	85.19	84.96	73.97	61.84
39.00	64.45	83.00	85.27	85.37	85.40	85.39	85.31	85.08	74.08	61.42
40.00	64.21	81.91	84.09	84.19	84.22	84.21	84.13	83.90	73.42	61.30
41.00	64.14	82.02	84.20	84.30	84.33	84.32	84.24	84.01	73.52	61.43
42.00	63.77	80.48	82.54	82.64	82.67	82.65	82.57	82.34	72.52	61.00
43.00	63.65	80.56	82.63	82.73	82.76	82.74	82.66	82.43	72.61	61.35
44.00	60.73	60.60	60.89	61.00	61.04	61.02	60.91	60.70	60.21	60.16
45.00	60.13	60.18	60.34	60.44	60.48	60.46	60.35	60.20	59.91	59.88